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Circuit. See Barber v. Kimbrell's, Inc., 577 F.2d 216, 226-28 (4th Cir.), cert. denied, 439 U.S. 934 (1978). The factors are: (1) time tions imposed by ellent or the circumstances of the case; (8) amount in controversy and the results obtained; (9) the experience, reputation and ability of the attorneys; (10) Highway Express, Inc., 488 F.2d 714, 717-19 (5th Cir. 1974). These factors govern fee petition analysis in the Fourth and labor expended; (2) novelty and difficul-ty of the questions raised; (3) the skill required to properly perform the legal services rendered; (4) the attorneys' opportunity cost in pressing the litigation; (5) the customary fee for like work; (6) attorneys' expectation at the outset of the litigation; (7) time litigathe undesirability of the case within the legal community; (11) nature and length of professional relationship between the attorney and client; and (12) attorneys' fees awarded in similar cases. In this case, only factors 1-3, 5, 7-9, and 12 are applicable.

summary judgment of noninfringement as to the fourth patent. Apparently none of the that was done as to SRFG and work that was done as to other defendants. Indeed, it would be unfair to SRFG for the Court to impose settling defendants were required to pay their portion of the plaintiffs' attorneys' fees on it the attorneys' fees attributable to work directed to the other defendants, all of whom settled in full except for the BluBlocker defendants who settled as to the three Johansen patents and later prevailed on a motion for In this case, the Court finds that it cannot with any real accuracy separate out work and costs.

Mr. Johnson, who worked 841.85 hours and whose normal rates are \$235/hour. The total number of hours billed by the law firm for Court will assess the amount of attorneys' fees and costs to which it finds the plaintiffs whose normal rates are \$280/hour; (2) Mr. Meece, who worked 2053.65 hours and are entitled. Plaintiffs assert that three attor-(1) Mr. Schiffey, who worked 781 hours and With this litigation scenario in mind, the neys took primary responsibility for the case: whose normal rates are \$180/hour; and (3) work on the entire lawsuit is 7150.95.

than those of general practitioners. (Factors he Court finds that the hourly rates able in view of their levels of experience and in light of commensurate fees charged in charged by the various attorneys are reason-Northern Virginia for similarly qualified counsel. (Factor 12). Patent law is a specialized area and requires special expertise; therefore, hourly rates are somewhat higher

be excessive because it does not reflect the fact that SRFG was only one of the many The Court, however, finds the plaintiffs' indeed, if the Court awarded plaintiffs are neys, the amount of that award would be \$786,171.75. The Court finds this amount to proach to the litigation, demanded minimum fees sought for the work of these three attordefendants named in this action. Indeed, other defendants, and in particular the Blu-Blocker defendants, took the lead during the discovery and summary judgment phases of this litigation. In fact, the Court granted summary judgment in favor of the BluBlocker defendants, and all other defendants except for SRFG settled; therefore, it would not be appropriate to compensate the plaintiffs for the fees incurred for work directed at those other defendants, especially because various approaches to hours unreasonable, SRFG did not even have counsel throughout because they did not take an aggressive apmuch of the pendency of this litigation and attention. (Factor 7).

the total amount of fees and costs incurred after February 13, 1998, through the trial is \$164,051.25, and because SRFG was the only remaining defendant throughout that period, 100% of those costs are attributable to SRFG. Rather than trying to apportion a grant of summary judgment in favor of the BluBlocker defendants, the only remaining defendant was SRFG. Plaintiffs assert that will award all of the post-February 13, 1998, fees that represent work done by the three ead counsel and none of the pre-February Nevertheless, after the February 13, 1998, percentage of pre-February 13, 1998, bill-ings to SRFG and then to evaluate all post-February 13, 1998, billings for factors for which the Court usually does not award fees, such as two attorneys conferring, the court 13, 1998, fees.

hourly rate. The numbers used are as follows: (1) Schifley: 185 hours at \$280/hour (\$51,800.00); (2) Meece: 286.25 hours at \$180/hour (\$51,525.00); (3) Johnson: portion that represents the work of the three 75. The Court comes to this figure by multi-The Court limits plaintiffs, award to that mitted redacted records in support of the to determine what work was actually done reduce the \$164,051.25 amount to \$130,643worked, for the period after February 13, 1998, through the trial, by each attorney's 116.25 at \$235/hour (\$27,318.75). Thus, the three lead counsel billed 587.5 hours for ead counsel because plaintiffs' counsel subpetition, making it impossible for the Court and by whom. Accordingly, the Court will plying the hours that the three lead attorneys a total of \$130,643.75, which is approxi-

mately 80% of the total amount sought for that period

[6] A total award of \$130,643.75 for attorneys fees is appropriate in this case in light of the *Kimbrell's* factors that apply. Preparation for the trial with respect to this particular defendant involved several prepartly as a result of the defendant's having so little evidence to present. Finally, in light of the damages awarded, \$130.643.75 is not an questions, and the fast pace of this docket required an intense dedication of attorney time to the litigation. (Factors 1, 2 and 7). Moreover, the Court notes that plaintiffs trial motions, several raising complex factual counsel took the case on a contingent fee basis, which means that given the amount of work expended in this case. We also point out that the actual trial was relatively short, the judgment, they will be made whole for all unreasonably high attorneys' fee. (Factor 8

invoices dated March 26, 1998 (\$37,612.84) and April 9, 1998 (\$17,309.51), for a total award of \$54,922.35. This amount includes all costs incurred from February 23, 1998, to With respect to costs, the Court finds it appropriate, for the same reasons discussed above, to award the plaintiffs the total amounts reflected only on the law firm's April 9, 1998.

### IV. Conclusion

For the reasons stated in open court and in this Memorandum Opinion, BRFG's Motion for Declaration of Mistrial and Motion for a Trebled Damages and Attorneys' Fees will be denied as to the trebled damages and granted as to the attorneys' fees and costs, JNOV or in the Alternative a New Trial will be denied. In addition, plaintiffs' Motion of and the Court will award plaintiffs \$130,643.75 in attorneys' fees and \$54,922.25 in costs. An appropriate order will issue.

The Clerk is directed to forward copies of this Memorandum Opinion to counsel of

DENIED, and plaintiffs' Motion for Trebled Damages and Attorneys' Fees is GRANTED IN PART as to attorneys' fees and costs and DENIED as to trebled damages, and it For the reasons stated in an accompanying Memorandum Opinion, SRFG's Motion for Declaration of Mistrial and Motion for a JNOV or in the Alternative a New Trial are

OKDERED that plaintiffs be and are awarded \$130,643.75 in attorneys' fees and plaintiffs be ORDERED that

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for a total award of \$54,922.35 in costs, \$185,566.10.

The Clerk is directed to forward copies of this Order to counsel of record.

#### U.S. Court of Appeals Federal Circuit

In re Rouffet No. 97-1492

Decided July 15, 1998

#### **PATENTS**

## Patentability/Validity — Obviousness — Combining references (§115.0905)

tions system for mobile terminals, which addresses problem of minimizing "handover" of receiver from beam footprint of one transmitting satellite to that of another ence that teaches use of fan-shaped beam to Claimed low orbit satellite communicathrough use of multiple fan-shaped beams, is three prior art references, since critical refernot prima facie obvious over combination of transmit from ground station to orbiting satellites does not specifically address handover minimization, and to extent it addresses handover problem at all, does so with orbit selection rather than beam shape, and since there is no reason one of ordinary skill in art, secking to minimize handovers due to satellite motion, would have been motivated to combine this reference with remaining references in manner that would render claimed invention obvious.

## 2. Patentability/Validity - Obviousness -Person of ordinary skill in (§115.0902)

### Patentability/Validity - Obviousness Combining references (§115.0905)

Three possible sources for motivation to would render claimed invention obvious are nature of problem to be solved, teachings of prior art, and knowledge of persons of ordinary skill in art; high level of skill in field of art cannot be relied upon to provide necescombine prior art references in manner that would have suggested combination, since, if such rote invocation could suffice to supply scientific fields would rarely, if ever, expersary motivation absent explanation of what specific understanding or technical principle, motivation to combine, more sophisticated within knowledge one of ordinary skill in art, ience patentable technical advance.

47 USPQ2d

#### ä 3. Patentability/Validity - Obviousness -Person of ordinary skill in (§115.0902)

### Patentability/Validity — Obviousness — Combining references (§115.0905)

prima facie obvious over combination of two prior art references, even though person possessing high level of skill characteristic of this field would know to account for differences between claimed invention and prior art combination, since high level of skill in art, without more, cannot supply required motivation to combine references, and does not overcome absence of any actual suggestion to combine; obviousness rejection will not be upheld, even where skill in art is high, known to one of ordinary skill, that suggests Claimed low orbit satellite communications system for mobile terminals is not absent specific identification of principle, claimed combination. Appeal from the U.S. Patent and Trademark Office, Board of Patent Appeals and nterferences.

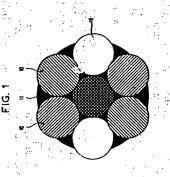
Tanguy, and Frédéric Berthault, serial 07/888.791, filed May 27, 1992. From decision upholding examiner's final rejection of application as obvious under 35 USC Patent application of Dénis Roulfet, Yan-103(a), applicants appeal. Reversed. no. 07/888,791, filed May 27

Richard C. Turner and Grant K. Rowan, of Sughrue, Mion, Zinn, Macpeak & Seas, Washington, D.C., for appellants. David J. Ball Jr., associate solicitor, Nancy J. Linck, solicitor, Albin F. Drost, deputy solicitor, Craig R. Kaufman, associate solicitor, and Scott A. Chambers, associate solicitor, U.S. Patent and Trademark Office, Arlington, Va., for appellee. Before Plager, circuit, judge, Archer, senior circuit judge, and Rader, circuit judge.

#### Rader, J.

déric Berthault (collectively, Rouffet) sub-mitted application 07/888,791 (the applica-tion) on May 27, 1992. The Board of Patent Appeals and Interferences (the Board) af-firmed final rejection of the application as obvious under 35 U.S.C., § 103(a). See Ex parte Rouffet, No. 96-1553 (Bd. Pat. App. & Int. Apr. 16, 1997). Because the Board Denis Rouffet, Yannick Tanguy, and Fréreversibly erred in identifying a motivation to combine the references, this court reverses.

Figure 1 from the application shows the coverage of a portion of the Earth's surface provided by multiple cone shaped beams: communications. These satellites project a on the Earth's surface. In order to provide complete coverage, adjacent footprints overlap slightly and therefore must use different frequencies to avoid interference. However, two or more non-overlapping footprints can use the same set of frequencies in order to use efficiently the Jimitod radio spectrum. stationary orbit remain over the same point tion above the Earth's surface facilitates number of beams to the Earth. Each beam on the Earth's surface. Their constant positransmits to its area of coverage, or footprint, Satellites in a geosynchronous or

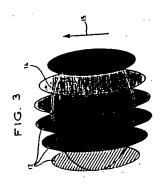


congestion in geostationary orbits. To allevicreates a new problem. The satellite's movement causes a receiver on the Earth's surface to move from the footprint of one beam into a satellite. Each switch from one footprint to have a limited ability to compensate for ate the orbit congestion problem, new telecommunications systems use a network of satellites in low Earth orbit. When viewed from a fixed point on the Earth's surface, such satellites do not remain stationary but move overhead. A satellite's motion as it transmits a plurality of cone-shaped beams second beam transmitted by the same satelite. Eventually, the satellite's motion causes the receiver to move from the footprint of a beam transmitted by one satellite into the reuse techniques, however, footprint of a beam transmitted by a second another creates a "handover" event analogous to that which occurs when a traditional cellular phone travels from one ceil to another. Handovers are undesirable because Frequency

they can cause interruptions in signal transmission and reception.

In re Rouffer

surface likely will remain within a single footprint until it is necessary to switch to surface. his arrangement reduces, but does not eliminate, handovers. Figure 3 from the particular. Rouffet eliminates handovers caused solely by the satellite's motion. To accomplish this goal, Rouffet changes the beams transmitted by the same satellite. In fan-shaped beams. A fan beam has an elliptical footprint. Rouffet aligns the long axis of satellite's motion across the Earth's surface. By elongating the beam's footprint in the direction of satellite travel, Rouffet's invenanother satellite. Because Rousset's inventhe motion of the receiver across the Earth's to reduce the number of handovers between shape of the beam transmitted by the satellite's antenna. Rouffet's satellites transmit his beams parallel to the direction of the tion ensures that a fixed point on the Earth's tion does not address handovers caused by application shows the footprints 12 from six beams aligned in the direction of satellite Rouffet's application discloses technology



stand or fall as a group. Claim 1 is The application contains ten claims that representative:

satellite provides isoflux coverage made up A low orbit satellite communications system for mobile terminals, wherein the communications antenna system of each of a plurality of fan beams that are elongate in the travel direction of the satellite.

claims as unpatentable over U.S. Pat. No. 5,199,672 (King) in view of U.S. Pat. No. 4,872,015 (Rosen) and a conference report entitled "A Novel Non-Geostationary Satel-lite Communications System," Conference munications, 1981 (Ruddy). On appeal to The examiner initially rejected Rouffet's Record, International Conference on Comthe Board, the examiner added an alterna-

tive ground for rejection, holding that the claims were obvious over U.S. Pat. No. 5,394,561 (Freeburg) in view of U.S. Pat.

Ruddy. The Board, on a split vote, also affirmed the rejection over Freeburg in view On April 16, 1997, the Board issued its decision. Because Rouffet had specified that Board limited its opinion to that claim. The Board unanimously determined that the exthe claims would stand or fall as a group aminer had properly rejected claim 1 as obvious over King in view of Rosen and based on the patentability of claim No. 5,170,485 (Levine). of Levine.

rebutted prima facie case of obviousness. See In re Deuel, 51 F.3d 1552, 1557, 34 USPQ2d statutory requirements is entitled to a patent. See In re Octiker, 977 F.2d 1443, 1445, 24 USPQ2d 1443, 1444 (Fed. Cir. 1992). On appeal to the Board, an applicant can overcome a rejection by showing insufficient evidence of prima facie obviousness or by rebutting the prima facie case with evidence of section 103, an examiner must show an un-1210, 1214 (Fed. Cir. 1995). In the absence secondary indicia of nonobviousness. See id. To reject claims in an application under of a proper prima facie case of obviousness, an applicant who complies with the other

reviews the Board's factual findings for clear error. See In re Zurko, 142 F.3d, 1447, 1449, 46 USPQ2d 1691, 1693 (Fed. Cir. 1998) (in banc): Leuders, 111 F.3d at 1571-72...'A finding is clearly erroneous ousness rejection by showing that the Board ness or that the Board based its obviousness determination on incorrect factual predicates. This court reviews the ultimate determination of obviousness as a question of law. See In re Lueders, 111 F.3d 1569, 1571, 42 USPQ2d 1481, 1482 (Fed. Cir. 1997). The factual predicates underlying an obviousness arch Knitting Mach. Corp. v. Sulzer Morat GmbH, 139 F.34 877, 881, 45 USPQ2d 1977, 1981 (Fed. Cir. 1998). This court when, although there is evidence to support it, the reviewing court on the entire evidence While this court reviews the Board's determination in light of the entire record, an applicant may specifically challenge an obvireached an incorrect conclusion of obviousof the prior art, the differences between the prior art and the claimed invention, and the level of ordinary skill in the art. See Monis left with the definite and firm conviction determination include the scope and content Graves, 69 F.3d 1147, 1151, 36 USPO2d that a mistake has been committed.""

1697, 1700 (Fed. Cir. 1995) (quoting United States v. United States Gypsum Co., 333 U.S. 364, 395 [76 USPQ 430] (1948)).

1990), licenses showing industry respect for the invention, see Arkie Lures, Inc. v. Gene Larew Tackle, Inc., 119 F.3d 953, 957, 43 USPQ2d 1294, 1297 (Fed. Cir. 1997); Pen-tec, Inc. v. Graphic Controls Corp., 776 F.2d 309, 316, 227 USPQ 766, 771 (Fed. Cir. determination of patentability is made on the entire record."); In re Piasecki, 745 F.2d 1468, 1472, 223 USPQ 785, 788 (Fed. Cir. 1984). The court reviews factual conclusions Whether the evidence presented suffices to rebut the prima facie case is part of the ultimate conclusion of obviousness and is [148 USPQ 459] (1966), commercial success, see In re Huang, 100 F.3d 135, 139-40, 40 USPQ2d 1685, 1689-90 (Fed. Cir. 1996). invention, unexpected properties of the claimed invention, see In re Mayne, 104 F.3d 1985), and skepticism of skilled artisans before the invention, see In re Dow Chem. Co., 837 F.2d 469, 473, 5 USPQ2d 1529, 1532 (Fed. Cir. 1988). The Board must consider Board that the examiner made a prima facie case is not improper, as long as the ultimate 1339, 1342, 41 USPQ2d 1451, 1454 (Fed. Cir. 1997); In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936-37 (Fed. Cir. all of the applicant's evidence. See Oetiker, 977 F.2d at 1445 ("An observation by the The secondary considerations are also essential components of the obviousness determination. See In re Emerr, 124 F.3d 1458, 1462, 44 USPQ2d 1149, 1153 (Fed. Cir. 1997) ("Without Emert providing rebuttal ness must stand."). This objective evidence but unsolved need, failure of others, see Graham v. John Deere Co., 383 U.S. 1, 17-18 unexpected results created by the claimed evidence, this prima facie case of obvious of nonobviousness includes copying, long felt drawn from this evidence for clear error. therefore a question of law.

(Fed. Cir. 1987). Although the suggestion to some teaching, suggestion, or motivation to ture of the problem, see Pro-Mold & Tool Co. v. Great Lakes Plastics, Inc., 75 F.3d 1568, 1573, 37 USPQ2d 1626, 1630 (Fed. Cir. 1996), the suggestion more often comes tion of prior art references, there must be combine the references. See In re Geiger, 815 F.2d 686, 688, 2 USPQ2d 1276, 1278 combine references may flow from the nafrom the teachings of the pertinent references, see In re Sernaker, 702 F.2d 989, 994, ance in a particular field, see Pro-Mold, 75 When a rejection depends on a combina-217 USPQ 1, 5 (Fed. Cir. 1983), or from the ordinary knowledge of those skilled in the art that certain references are of special impor-

desirability, and thus the obviousness, of making the combination." See In re Beatie, 974 F.2d 1309, 1311-12, 24 USPQ2d 1040, 1042 (Fed. Cir. 1992) (quoting Lindemann Maschinenfabrik GmbH v. American Hoist & Derrick Co., 730 F.2d 1452, 1462, 221 USPQ 481, 488 (Fed. Cir. 1984)). E.3d at 1573 (citing Ashland Oil, Inc. v. Delta Resins & Respactories, Inc., 776 F.2d 281, 297 n.24, 227 USPQ 657, 667 n.24 (Fed. Cir. 1985)). Therefore, "[w]hen determining the patentability of a claimed inven-tion which combines two known elements, "the question is whether there is something in the prior art as a whole to suggest the

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erred by improperly combining references to asserted by the examiner are in the same The parties agree that the five references field of endeavor as the invention. The parlies also agree that the pertinent level of skill in the art - design of satellite communications systems — is high. On appeal, Rouffet asserts that the examiner and the Board render the claimed invention obvious.

# The Combination of King, Rosen, and

Rouffet's claims over a combination of King, Rosen, and Ruddy. King discloses a system uses a plurality of fan beams with their long axes oriented in an east-west direction to The Board first affirmed the rejection of for launching a plurality of satellites into low Earth orbits from a single launch vehicle. Rosen teaches a geostationary satellite that communicate with mobile and fixed terminals on the Earth.

uses a series of satellites to retransmit signals Ruddy teaches the use of a series of satellites scribes a television broadcast system that orbit always follows the same path through the sky when viewed from a fixed point on the ground. Viewed from the Earth, the orbital path includes a narrow, elliptical apolong axis of the orbit's apogee loop. This in the footprint of the beam and eliminates the need for the ground station's antenna to The final, and most important, reference in this combination is Ruddy. Ruddy desent from a ground station over a wide area. Rather than using a geostationary orbit, in Molniya orbits. A satellite in a Molniya gee loop. In order to transmit to these moving satellites from a ground station, Ruddy uses a fan beam with a long axis aligned with the alignment places the entire apogee loop withtrack the satellite's motion around the apogee loop. Ruddy further teaches orbit param-

eters and spacing of multiple satellites to ensure that a satellite is always in the loop to receive and rebroadcast signals from the Earth station.

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geometrical shape of the beams 12 is changed: instead of being circular they are now clongate ellipses."). The application's King and Rosen together teach the use of a that are elongate in the travel direction of the satellite." Ruddy, however, is different from the claimed invention in several respects. minimize handovers. See id. at lines 11-16 Thus, Ruddy becomes the piece of the prior art mosaic that shows, in the reading of the Board, the use of "a plurality of fan beams Specifically, the application claims the proprints from the satellite to the ground. See Claim 1, supra, see also Application at 6, lines 9-11 ("In addition, in this system, the written description further teaches that the "This considerably increases call durations network of satellites in low Earth orbit. jection of multiple elliptical fan-shaped footinvention's fan-shaped satellite beams will between handovers.").

differences are evident: the application teaches projection of multiple beams from a satellite to the Earth, while Ruddy teaches projection of a single beam from the Earth to In contrast, Ruddy teaches that a ground station may use a single fan-shaped beam to transmit to a satellite in a unique Molniya orbit. The ground station transmits a beam into which a series of satellites in Molniya orbits will successively enter. At least two satellites. Moreover to the extent Ruddy contains a teaching about handovers, its teachings focus on use of the unique Molniya orbit to ensure that a satellite always falls within the beam transmitted by the ground station.

in showing a prima facie case of obviousness.

The Board, however, specifically found that artisans of ordinary skill in this field of art would know to shift the frame of reference These differences suggest some difficulty from a ground station following a satellite to a satellite transmitting to the ground. Ac-cording proper deference to the Board's findences would not preclude a finding of obvi-ousness. While Ruddy does not expressly this court perceives no clear error in the suggest such an alignment to one of skill in finding that the combination of King, Rosen, and Ruddy contains all of the elements ing of a lofty skill level for ordinary artisans in this field, this court discerns no clear error in the Board's conclusion that these differteach alignment of the fan beam with the apparent direction of the satellite's motion, Board's determination that Ruddy would this art. Therefore, the Board did not err in claimed in Rouffet's application.

[1] However, the Board reversibly erred in determining that one of skill in the art would have been motivated to combine these references in a manner that rendered the claimed invention obvious. Indeed, the Board did not identify any motivation to choose these references for combination. Ruddy does not specifically address handover minimization. To the extent that Ruddy at all addresses hundovers due to satellite motion, it addresses this subject through the selection of orbital parameters. Ruddy does not teach the choice of a particular shape and alignment of the beam projected by the satellite. Thus Ruddy addresses the handover problem with an orbit selection, not a beam shape. The Board in this art, seeking to minimize handovers due to satellite motion, would combine Ruddy with Rosen and King in a manner that would render the claimed invention obvious. provides no reasons that one of ordinary skill

tage point of a hypothetical person having ordinary skill in the art to which the patent pertains. See 35 U.S.C. § 103(a). This legal construct is akin to the "reasonable person" skilled artisan. See In re Carlson, 983 F.2d 1032, 1038, 25 USPQ2d 1207, 1211 (Fed. Cir. 1993). Obviousness is determined from the vanused as a reference in negligence determinations. The legal construct also presumes that all prior art references in the field of the invention are available to this hypothetical

[inventions] are combinations of old elements." Environmental Designs, Ltd. v. Union Oil Co., 713 F.2d 693, 698, 218 USPQ 865, 870 (Fed. Cir. 1983); see also Richdel, Inc. v. Sunspool Corp., 714 F.2d 1573, 1579-80, 219 USPQ 8, 12 (Fed. Cir. 1983) ("Most, if not all, inventions are com-As this court has stated, "virtually all Therefore an examiner may often find every element of a claimed invention in the prior art. If identification of each claimed element in the prior art were sufficient to negate by finding prior art corollaries for the claimed elements would permit an examiner to use the claimed invention itself as a blueprint for piecing together elements in the be "an illogical and inappropriate process by which to determine patentability." Sensonies, Inc. v. Aerosonic Corp., 81 F.3d 1566. issue. Furthermore, rejecting patents solely prior art to defeat the patentability of the claimed invention. Such an approach would binations and mostly of old elements."). 570, 38 USPQ2d 1551, 1554 (Fed. patentability, very few patents would 1996).

the invention to defeat patentability of the invention, this court requires the examiner to To prevent the use of hindsight based

Champagne Louis Roederer S.A. v. Delicato Vinevards

show a motivation to combine the references that create the case of obviousness. In other words, the examiner must show reasons that the skilled artisan, confronted with the same problems as the inventor and with no know!edge of the claimed invention, would select the elements from the cited prior art referfor combination in the manner claimed ences

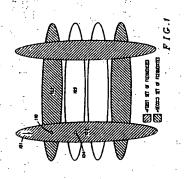
level of skill in the art to overcome the differences between the claimed invention and the selected elements in the references, it relied upon the high level of skill in the art to the knowledge of one of ordinary skill in the art would have suggested the combination. Instead, the Board merely invoked the high level of skill in the field of art. If such a rote routinely identify the prior art elements in an rest its case for rejection. To counter this hindsight analysis and rote application of the [2] This court has identified three possible sources for a motivation to combine referthe teachings of the prior art, and the knowledge of persons of ordinary skill in the art. In case, the Board relied upon none of these. Rather, just as it relied on the high provide the necessary motivation. The Board did not, however, explain what specific un-derstanding or technological principle within invocation could suffice to supply a motivation to combine, the more sophisticated scientific fields would rarely, if ever, experience patentable technical advance. Instead, in complex scientific fields, the Board could application, invoke the lofty level of skill, and potential weakness in the obviousness construct, the suggestion to combine requirement stands as a critical safeguard against ences: the nature of the problem to be solved egal test for obviousness.

invention to make the combination, this selection of references that comprise the case of obviousness. See In re Gorman, 933 F.2d specific understanding or principle within motivate one with no knowledge of Rouffet's court infers that the examiner selected these 1991). Lacking a motivation to combine references, the Board did not show a proper reverses the rejection over the combination Because the Board did not explain the the knowledge of a skilled artisan that would references with the assistance of hindsight. This court forbids the use of hindsight in the , 986, 18 USPQ2d 1885, 1888 (Fed. Cir. prima facie case of obviousness. This court King, Rosen, and Ruddy.

# The Combination of Freeburg and Levine

phone system based on a constellation of low Earth orbit satellites that use conical beams Freeburg teaches a cellular radiotele-

to transmit from the satellite to both fixed and mobile Earth stations. Levine teaches an Earth-based cellular radio system that uses Levine's elliptical footprints are aligned with the road grid. To increase the capacity of traditional ground-based systems through frequency reuse techniques, Levine teaches the use of antennas that broadcast signals with smaller footprints than the prior art system. Thus, Levine actually increases the number of overlap regions between cells and, hence, the number of potential handovers. Figure 1 of the Levine patent illustrates its fan beams broadcast from antenna towers. alignment of beam footprints:



rithms to determine which of the cells is tersecting cells in the event that the mobile As a mobile unit (e.g., a driver using a car phone) moves though a succession of overlapping zones, Levine uses selection algoaligned with the travel direction of the mobile unit. These algorithms then select this cell for use while continually monitoring inunit changes direction.

sessing the lofty skills characteristic of this Once again, this court notes significant differences between the teachings of the application and the Levine-Freeburg combination. The critical Levine reference again inplies the number of potential handovers and then uses software to sort out the necessary the Board explains the reasons that one posfield would know to account for the differences between the claimed invention and the prior art combination. This court discerns no volves a beam from an Earth station without satellite." Moreover, Levine actually multiclear error in that reliance on the consider any reference to the "travel direction of [a handovers from the unnecessary. However able skills in this field.

not supply the required suggestion to comthe high level of skill in the art overcomes the (3) This court does, however, discern reversible error in the Board's identification of motivation to combine Levine and Freeburg. In determining that one of skill in the art would have had motivation to combine Levine and Freeburg, the Board noted that As noted before, this observation alone canbine these references. The Board posits that absence of any actual suggestion that one could select part of the teachings of Levinc for combination with the satellite system '(t)he level of skill in the art is very high. disclosed by Freeburg.

the inquiry for a suggestion to combine, a lofty level of skill alone does not suffice to supply a motivation to combine. Otherwise a high level of ordinary skill in an art field prior art in a nonobvious manner. See. e.g., Richdel, 714 F.2d at 1579; Environmental Designs, 713 F.2d at 698. Therefore, even Gechter v. Davidson, 116 F.3d 1454, 43 USPQ2d 1030 (Fed. Cir. 1997) (explaining that the Board's opinion must describe the 를 As noted above, the suggestion to combine requirement is a safeguard against the use of would almost always preclude patentable inventions. As this court has often noted, invention itself is the process of combining when the level of skill in the art is high, the Board must identify specifically the principle, known to one of ordinary skill, that Board must explain the reasons one of ordinary skill in the art would have been motivated to select the references and to combine them to render the claimed invention ity. While the skill level is a component of ₽£ hindsight combinations to negate patentabil basis for its decision). In other words, suggests the claimed combination. obvious.

with Freeburg's satellite system, the rejection of Rouffet's claim over these references The Board's naked invocation of skill in the art to supply a suggestion to combine the references cited in this case is therefore clearly erroneous. Absent any proper motivation to combine part of Levine's teachings was improper and is reversed.

The Board reversibly erred in determining vious. Because this predicate was missing in each case, the Board did not properly show that these references render the claimed inthat there was a motivation to combine either the teachings of King, Rosen, and Ruddy or of Freeburg and Levine in a manner that would render the claimed invention obvention obvious. Therefore this court re-

verses the Board's decision upholding the rejection of Rouffet's claims. In light of this disposition, Rouffet's pending motion to remand the case to the Board for further consideration is denied as moot.

#### COSTS

Each party shall bear its own costs.

REVERSED.

#### U.S. Court of Appeals Federal Circuit

Champagne Louis Roederer S.A. v. Delicato Vineyards

No. 98-1032

Decided July 16, 1998

## TRADEMARKS AND UNFAIR TRADE PRACTICES

Likelihood of confusion - Particular Infringement; conflicts between marks — Confusion (§335.0304.05)

Infringement; conflicts between marks — Tests generally (§335.06)

on ground that applicant's "Crystal Creek" mark for wine and opposer's "Cristal" marks for champagne are dissimilar with respect to mercial impression, since board did not err in relying solely on dissimilarity of marks in evaluating likelihood of confusion, since single factor may be dispositive in likelihood of confusion analysis, especially when that facnot err in dismissing opposition proceeding appearance, sound, significance, and comtor is dissimilarity of marks, and since no instances of clear error regarding board's findings of fact as to dissimilarities of marks Frademark Trial and Appeal Board did have been demonstrated. Appeal from the U.S. Patent and Trademark Office, Trademark Trial and Appeal Board.

in opposition to application filed by Delicato for wine. From dismissal of opposition pro-ceeding, opposer appeals. Affirmed, Michel, Proceeding (Opposition No. 80,932) brought by Champagne Louis Rocderer S.A. Vineyards to register mark "Crystal Creek" J., concurring in separate opinion.

## 'HE PUBLIC INTEREST

confusion in the marketplace. Worthington Foods, Inc., 732 F.Supp. 1463. In the present case, confusion has been shown to public interest. In a case such as the present, public policy concerns weigh in favor of America has logged numerous telephone calls from its radio listeners who are confused as to who is conducting the "Moondog Coronation Ball." (See Exhibit Q) It has also received letters and facsimiles from listens who are confused as to who is conducting the "Moondog Coronation Ball." (See Exhibits I, Y and Z). The final factor to consider when assessing the destrability of injunctive relief is the exist regarding the Defendants' use of the words "Moondog Coronation Ball." Omnipreliminary injunctive relief in order to halt

Court finds that injunctive relief would be in shown a likelihood of confusion. Thus, this This Court finds that OmniAmerica has the public's best interest.

ings of Fact and Conclusion of Law submit-ted by Plaintiff. The Court has adopted in part the Find-

## FINDINGS OF FACT

Plaintiff, Omni America holds a certificate of registration for Moondog Coronation Ball If that was issued in 1986.

OmniAmerica acquired the registration for Moondog Coronation Ball II through assignment.

held in 1952 in Cleveland and is reputed to The first Moondog Coronation Ball was The name Moondog Coronation Ball was not used by anyone in connection with be the first rock and roll concert.

decided to hold a concert to rally support for bringing the Rock and Roll Hall of Fame to In 1986, the radio station WMMS-FM concert or other event until 1986.

Gorman, who worked at WMMS-FM at that time, conceived the idea to call the concert the Moondog Coronation Ball and feature some performers from the Cleveland. ohn

WMMS-FM was owned by Malrite Com-State in order to protect their rights to the munications in 1986 and that Malrite registered the name Moondog Coronation Ball II as a service Mark with the Ohio Secretary of

Moondog Coronation Ball when the Rock and Roll Hall of Fame was opened in WMMS-FM had plans to hold the next Cleveland

1992. The concert was to commemorate the 40th anniversary of the original concert and next concert called the Moondog Coronation Ball was held on March 21 was promoted through WMJI-FM.

for WMJI and the parties entered into a Canterbury agreed to produce the concert contract for the production of the Moondog Coronation Ball.

sold tickets, and collected the proceeds from the ticket sales. Both WMJI-FM and Canthe show and deciding the logistics for the terbury were active in choosing the talent for WMJI-FM promoted and hosted the concert. Canterbury contracted with the artist. show.

WMJI-FM held the Moondog Coronation Ball again in 1993, 1994, and 1995. Canterbury was the production company each of those years.

WMJI-FM was using the Mark Moondog Coronation Ball with the consent and approval of the owner of the registration for the

OmniAmerica acquired WMJI-FM in the assignment of the registration for the 1994, around the same time that it acquired

In 1996, Canterbury knew that Omni-America owned the registration for Moon-dog Coronation Ball II.

AM are using the service mark Moondog Coronation Ball in connection with an oldies concert scheduled to take place in Cleveland Canterbury and WDOK-FM/WRMR on March 23, 1996.

Salled WMJI-FM and expressed confusion over the origin and sponsorship of the concert scheduled for March 23, 1996. individuals Numerous

### CONCLUSION

The Rights to the service mark are acdence that: the registrant had first use of the Mark; the registrant asserts exclusive rights to the service mark; and, the registrant has quired through use. A registration is eviput the public on notice of its assertion of exclusive rights to the service mark. In the Encroachment on a strong service mark tends to produce the greatest likelihood of service mark for an identical service in the present case. OmniAmerica holds a fanciful service mark. This is a strong service mark. confusion. An intentional use of a fanciful confusion, establishes likelihood of confusame market area, combined with Sion.

In the case at bar, the likelihood of confusion with the service mark Moondog Corona

against the granting of injunctive relief. Further, the public interest is served by a Preliminary Injunction that prevents consumer junction. The potential harm to the apparent infringer, the Defendants, does not weigh confusion. By promoting a concert in Ohio using Moondog Coronation Ball, the Defenmark. Therefore, Omni America is entitled to dants have used Plaintiff's service mark is infringing Plaintiff's rights in the service tion Ball may result in irreparable harm for purposes of entitlement to a Preliminary Inwithout Plaintiff's permission in a way that

dba Canterbury Productions/Farag Music BMI, the Moondog Coronation Ball Corp., and Independent Group Limited Partnership, their agents, and any other persons associated with or acting in concert with and hereby are restrained and enjoined from using the service mark "Moondog Coronation Ball" or any similar service mark in connection with any concert or other event. Use of a Mark that includes the words "Moondog" and "Coronation" in connection them, including but not limited to, Henry Farag and Canterbury Productions, Inc., be with a concert or other event will be consida Preliminary Injunction.

IT IS THEREFORE ORDERED that the Defendants Street Gold Records,

in concert with them, including, but not limited to Mr. Henry Farag, Mr. Omar Farag, and Canterbury Productions, Inc. are Specifically, Defendants, their agents, and any other persons associated with or acting ered to be use of a similar mark. enjoined from:

) selling, issuing, or releasing any tickets the service mark Moondog Coronation Ball or any similar mark; bearing

Defendants, using the service mark Moon-dog Coronation Ball or any similar service issuing any written or oral promotion of or any other concert or event produced by the concert scheduled for March 23, 1996,

concert scheduled for March 23, 1996, or any other concert or event produced by making any representations that the Defendants, is the Moondog Coronation Ball.

### CONCLUSION

taining to damages, and any issues relating OmniAmerica's Motion for a Preliminary to the expiration of the service mark that expires on March 10, 1996, will be addressed at the Permanent Injunction Hearing which Based upon the forgoing reasons, Plaintiff, Injunction is GRANTED. All matters per-

will be held at a later date to be determined by this Court.

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Sensonics Inc. v. Aerosonic Corp.

IT IS SO ORDERED

#### U.S. Court of Appeals Federal Circuit

Sensonics Inc. v. Aerosonic Corp.

Nos. 95-1058, -1062, -1098 Decided April 24, 1996

## 1. Patentability/Validity — Obviousness — Combining references (§115.0905)

on hindsight knowledge of patented invention, when prior art does not contain or suggest that knowledge, is improper use of invention as template for its own reconstrucis not obvious in view of prior art references considered alone or in combination, since there is no teaching or suggestion whereby been led to select particular mechanical and bine them as did inventor, and since drawing Claimed vibrator for aircraft instruments person of ordinary skill in art would have electrical structures and concepts and com-

#### - Fraud or unclean bands (§120.1111) 2. Infringement - Defenses

during prosecution of patent in suit did not constitute inequitable conduct, since defendant's failure to mention prior patent in its Failure to disclose inventor's prior patent request for re-examination of patent in suit weighs heavily against its contention that prior patent was material prior art, and since there is no evidence of culpable intent.

## 3. Infringement - Willful (§120.16)

infringe vibrator patent in suit, even though opinion of defendants' counsel does not mention defendants' copying and other objective continued even after validity of patent was willfulness raises questions of credibility as readily reversed, and since infringement oc-Federal district court did not clearly err by concluding that defendants did not willfully indicia of unobviousness, and infringement confirmed on re-examination, since issue of well as weight, and findings thereon are not curred four months prior to patent's expira-tion.

38 USPQ2d

### REMEDIES

# Lost profits (§510.0507.05)

extrapolated production by 33 percent to account for device repair or inefficiency in Infringement defendant's failure to retain production records during litigation gives records of acts for which infringement had been charged; federal district court's determination that 7,347 infringing units had been produced by defendant, based on extrapolation from production records availrepresents best available reconstruction of infringing activity, but court's reduction of rise to strong inference that such records would have been unfavorable to defendant, since it is not necessary to establish bad faith in order to draw adverse inference from purposeful" action, and since it is appropriate that doubt be resolved against defendant in view of clear duty to keep and preserve able for final six months of patent's term, production is not supported by evidence.

# 5. Monetary — Damages — Patents — Increased damages (§510.0507.07)

Federal district court did not abuse its discretion by declining to award enhanced damages for patent infringement, since enhanced damages are punitive rather than compensatory, and depend on showing of willful infringement or other indicium of bad faith warranting punitive damages, and since court's finding that infringement was not willful was not clear error.

## 6. Monetary - Damages - Prejudgment interest (§510.0511)

Prejudgment interest in patent cases is ranted in present patent action in which there is no circumstance that would make calculation difficulties alone is error; prewithheld only under exceptional circumstances, and denial of such award based on udgment interest award is therefore warsuch award unfair or inappropriate.

#### Patents - Exceptional case 7. Monetary - Attorneys' fees; costs (§510.0905.03)

bad faith or vexatious behavior is therefore warranted, even though federal district court did not err in concluding that defendants did and unprofessional behavior are relevant to award of attorneys' fees; remand of present case for determination of whether there was Bad faith and willful infringement are not only criteria whereby case may be deemed "exceptional," since litigation misconduct not willfully infringe.

#### PATENTS

# 8. Infringement - Inducement (§120.15)

### Monetary — Damages — Personal liability of corporate officials (§510.0513)

owner, president, chief executive officer, and chief of engineering of infringing corporation is lable for inducement to infringe, and is jointly and severally liable for amount of judgment, since weight of evidence is strongly contrary to defendant's testimony that he ue production of infringing device after be-coming aware of plaintiff's patent rights, and Federal district court properly concluded that individual defendant who was founder, was without authority to control or discontinsince court therefore did not clearly err in determining that testimony was not credible.

### Particular patents - Electrical - Tapping device

3,863,114, DeMayo, tapping device for generating periodic mechanical impulses, ruling that patent is enforceable, not invalid and infringed is affirmed.

The '114 patent is for a "Tapping Device for Generating Periodic Mechanical Pulses," inventor John F. DeMayo. Mr. DeMayo is a founder and officer of Sensonics. The tapping device, also called a "vibrator," is used

THE PATENTED INVENTION

moving indicators. Mechanical pulses, that is, taps, gently vibrate the moving parts in order to free them of the effects of static

primarily with aircraft instruments having

freely and thus with greater accuracy and reliability. Such devices require accurate

and reliable operation for extended periods age ranges. They require carcful control of to avoid causing errors in or requiring recali-

of time and over wide temperature and voltthe strength of the vibration pulses in order

friction, permitting the indicator to move

Affirmed in part, modified and reversed in Appeal from the U.S. District Court for the Middle District of Florida. Merhige, J. Action by Sensonics Inc. against Acrosonic Corp. and Herbert J. Frank for patent claims are enforceable, not invalid, and in-fringed, and that defendant Herbert J. Frank is personally liable for inducing infringement, defendants appeal. Plaintiff cross-appeals measure of damages and denial of enhanced damages and attorneys' fees infringement. From ruling that part, and remanded.

Daniel P. Burke, of Galgano & Burke, Hauppauge, N.Y., for plaintiff/crossappellant.

Robert E. Greenstien, of Honigman, Miller, Schwartz & Cohn, West Palm Beach, Fla.; Anne E. Brookes, John T. Klug, Louis K. Bonham, and John G. Flaim, of Honigman, Miller, Schwartz & Cohn, Houston, Texas; Robert W. Boos and Kevin M. Gilhool, of Honigman, Miller, Schwartz & Cohn, Tampa, Fla., for defendant-appellant Aerosonic Corp.

Sybil Meloy, Lisa S. Mankofsky, and Patricia D. Granados, of Foley & Lardner, Washington, D.C., for defendant-appellant Herbert J. Frank.

Before Newman, circuit judge, Bennett, senior circuit judge, and Bryson, circuit

## Sensonics Inc. v. Aerosonic Corp.

Newman, J. 38 USPQ2d

moving the device from its casing, a disadment of the mechanical pulses without vantage of prior vibrators, This consolidated appeal and cross-appeal

brator that Aerosonic was then making comtestified that the vibrating-reed design was the Sensonics device in complete detail, and mercially. Mr. Frank and other witnesses high failure rate after installation, and was of the strength of the mechanical pulses. The It was not disputed that Aerosonic copied replaced the vibrating-reed design of the vihard to manufacture, had an unacceptably deficient in that it did not allow adjustment superiority of the Sensonics device in accuracy, reliability, and cost, was undisputed.

bert J. Frank, each appeals certain aspects of the judgment of the United States District

Aerosonic appeals the district court's ruling

Court for the Middle District of Florida.

that the '114 patent is valid and enforceable,

the '114 patent) owned by Sensonics, Inc.

concern United States Patent No. 3,863,114 The defendants, Aerosonic Corp. and Herand also appeals the ruling of infringement as to some of the patent claims but not as to

others. Mr. Frank appeals the ruling that he is personally liable for inducement to infringe the Sensonics patent. Sensonics cross-

appeals the measure of damages, and the court's denial of enhanced damages and at-

## PATENT VALIDITY

not cited as a reference during prosecution of invalidity based on obviousness in terms of 35 U.S.C. § 103. The principal prior art at irial was an carlier invention of Mr. De-Mayo, described in United States Patent No. 3,507,339 (the '339 patent). This patent was Aerosonic raised the defense of patent the application that led to the '114 patent.

plexity, increased size, multiple components, difficulty of assembly, difficulty of adjustment, and too high a failure rate. Mr. De-Mayo testified that he continued to work to represented an earlier effort to make an improved mechanical vibrator. There was evidence that the '339 design had some advantages over prior devices, but that its shortcomings included manufacturing comsolve these problems, and that after several additional years of effort he succeeded in subject of the '114 patent. Although the '114 design and the '339 design have several similarities, there was evidence that the changes embodied in the '114 device achieved the simplicity and efficiency of manufacture, Mr. DeMayo testified that the '339 patent doing so, with the vibrator that became the quietness in operation, and reliability, that were inadequate in the '339 device. easy and accurate adjustment, compactness,

The invention claimed in the '114 patent is

bration of the aircraft instrument.

an electromagnetic vibrator that is easier to just, and less expensive than prior devices. Its

manufacture, more accurate, easier to adstructure of a unitary base with integrally formed anvil and armature support eliminated the welding and soldering steps of earlier devices, and also assured a true and consistent path for the magnetic flux. Another advantageous structural component is the adjustment element for the strength of the extends through the armature to the magnetic core. The head of the screw provides the

The '339 device has a screw extending through the armature to the magnetic core. This screw is soldered into place in order to provide sufficient contact within the device to ensure magnetic flux, and is not usable to adjust the strength of the pulses. Although at trial Aerosonic argued that it was obvious to make the design change of an adjustable screw, the district court observed that this element of the '114 invention provided significant advantages and remedied deficiencies of prior devices. The pulse strength for the '339 device was only adjustable from oelow, and thus was not readily adjusted

vibration pulses, in the form of a screw which

Corp., Nos. 1.D. Fla. Oct. Jensonics, Inc. v. Aerosonic Cor. 90-84-T-23A and 93-724- T-23A (M.D. li and Nov. 4, 1994). Sensonics Inc. v. Aerosonic Corp.

after installation. In contrust, the '114 device could be readily adjusted not only during Although Aerosonic points to the simplicity of this adjustment mechanism, simplicity does not establish obviousness; indeed, simplicity may represent a significant and unmanufacture but also after assembly and obvious advance over the complexity of prior after installation in the aircraft instrument

The district court referred to the factual underpinnings of the determination of obvithe testimony of Aerosonic's expert witness contact of its armature and magnetic core, a patent on a relay for telephone lines to control secondary signals, and a patent for an ousness as set forth in Graham v. John Deere concerning the prior art. In addition to the '339 patent, the references relied on by Aerosonic were two patents on "telegraphsounders" that were designed to make noise, a patent on a magnetically operated switch designed to absorb any shock created by Applying these criteria, the court discussed Co., 383 U.S. 1, 148 USPQ 459 (1966)

automobile voltage regulator.
[1] The district court concluded that "[c]onsidered in their entirety, the references discussed by defendants' expert do not, in the court's view, lead one of ordinary skill in the art to the invention in suit." We agree W.L. Gore & Assoc. v. Garlock, Inc., 721 F.2d 1540, 1553, 220 USPQ 303, 312-13 (Fed. Cir. 1983). The invention must be viewed not after the blueprint has been There is no teaching or suggestion whereby a person of ordinary skill would have been led structures and concepts and combine them as did DeMayo in the '114 invention. To draw on hindsight knowledge of the patented invention, when the prior art does not construction — an illogical and inappropriate process by which to determine patentability. that the references, alone or in combination, do not make obvious the '114 invention. to select these mechanical and electrical tain or suggest that knowledge, is to use the invention as a template for its own recondrawn by the inventor, but as it would have been perceived in the state of the art that Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1138, 227 USPQ 543, 547 (Fed. existed at the time the invention was made

The DeMayo '114 device was placed in tors from Budd Electronics Corp. An Aerocommercial production by Sensonics. Aerosonic purchased fifty of the Sensonics vibrainstructed by Mr. Frank to copy every detail of the Sensonics device, mentioning the number of turns of wire in the electromagnet and engineer testified that he

the wire thickness, the tension of the spring, construction, the adjustable screw, etc. Mr. Frank and other employees of Aerosonic testified that there were no acceptable substitutes in the industry for the DeMayo '114 the posts supporting the armature, the univibrator design.

Patent invalidity must be proved by clear and convincing evidence. The differences from the prior art that were shown at trial, the inadequacies of prior vibrators including nologic advantages and commercial success DeMayo's earlier '339 design, and the techof the '114 invention, well support the district court's conclusion that invalidity based on obviousness had not been proved. The decision that the patent is valid is affirmed.

## PATENT ENFORCEABILITY

to the attention of the patent examiner the DeMayo '339 patent. The district court held that the intent element of inequitable conmark Office because Sensonics did not bring evidence presented at trial of Sensonies' good faith. The court also observed that Aerosonie's own patent counsel did not initially notice the relevance of the '339 patent, and that the '339 patent was not cited by Aerosonic in Aerosonic charged Sensonics with inequiduct had not been shown, and referred to the table conduct before the Patent and Tradeits reexamination request which was made during the litigation, and for which the liti-

gation was stayed.

The district court found that Mr. De-Mayo, who testified at trial, was not aware of a need to direct the examiner to the '339 patent. Mr. DeMayo also testified that he did not believe that the '339 patent was relevant to the '114 invention due to the differences and significant drawbacks in the other evidence of the differences and draw-339 design; this testimony was supported by backs of the '339 and other prior devices.

[2] Aerosonic presses the argument that Sensonics did not seek reexamination of the '114 patent in light of the '339 patent until after expiration of the '114 patent. The '114 patent expired during the litigation. The diser requested reexamination of the '114 patent, but that Aerosonic did not mention the '339 patent in its reexamination papers. Indeed, Aerosonic's omission of the '339 patent trict court observed that Acrosonic had earlifrom its reexamination request weighs heavily against its argument that the '339 patent was material prior art.

duct was upon Aerosonic. The factual predicates of both (1) a withholding of material he burden of proof of inequitable con-

finding that intent to deceive or mislead the prior art and (2) the intent thereby to deceive 872, 9 USPQ2d 1384, 1389 (Fed. Cir. 1988), cerr. denied, 490 U.S. 1067 (1989). There ity of the evidence, including the evidence of good faith, well supports the district court's mislead the patent examiner into allowing the claims, must be shown by clear and convincing evidence. Kingsdown Medical Consultants, Ltd. v. Hollister, 863 F.2d 867, was no evidence of culpable intent. The total examiner was not shown.

court's findings and conclusion, we affirm the decision that there was not inequitable Absent reversible error in the district conduct before the patent office and that the 114 patent is enforceable.

## WILLFUL INFRINGEMENT

or 7. Thus the only infringement issue is Sensonics's cross-appeal of the district Aerosonic stipulated that it infringed claims 2 and 7. The district court found that Aerosonic appeals this latter finding, advising that we need not reach claims 3, 8, and 11 should we sustain the validity of claims 2 court's finding that Aerosonic's infringe-Aerosonic also infringed claims 3, 8 and 11 ment was not willful.

after it received written notice of infringement, as evidence that Aerosonic willfully disregarded or did not intend to respect the law. The devices that Aerosonic purchased from Budd Electronics and copied were all labelled with Sensonies' name. Sensonies states that the opinion of counsel that Aerosonic produced at trial was "protective" and was not a complete analysis, and that Aeroate and meticulous copying of the Sensonics sonic's continuing infringement after actual notice of Sensonics' patent was with knowl-Indeed, the opinion of counsel makes no sidered. See Stratoflex v. Aeroquip Corp., 713 F.2d 1530, 1539, 216 USPQ 871, 879 siderations must always be taken into Sensonics states that the court clearly erred in failing to find that the infringement was willful, referring to Aerosonic's deliberdevice, and Aerosonic's delay of eight months before consulting patent counsel edge and disregard of Sensonics' legal rights. mention of Aerosonic's copying and other objective indicia of unobviousness, although precedent requires that these factors be con-(Fed. Cir. 1983) (evidence of objective conbefore consulting patent

[3] Although the opinion of Aerosonic's counsel is flawed, the issue of willfulness raises questions of credibility as well as weight, and findings thereon are not readily

account).

reversed. See King Instrument Corp. v. Otari Corp., 767 F.2d 353, 867, 226 USPQ 402, 412 (Fed. Cir. 1985) (giving due deference to the trier's right to determine credibility and weight). The district court found that Aerosonic timely retained patent counsel itself signals willful infringement. On the whole we do not discern clear error in the district court's findings and conclusion on was continued even after the '114 patent was four months before patent expiration, and and reasonably relied on counsel's opinion. Although it is relevant that the infringement confirmed on reexamination, this occurred Sensonics does not argue that this event of the issue of willful infringement.

P

#### DAMAGES

Sensonics appeals the district court's measure of damages, on the ground that the district court incorrectly assessed the number of infringing devices made by Aerosonic.

sonics had proved (1) demand for the patented product, (2) Sensonics' ability to meet non-infringing substitutes, and (4) the amount of lost profits per unit. The principal issue at trial was not any of these criteria, but by Aerosonic during the period between actual notice of infringement on September 14, 1989 and the expiration of the '114 patent on January 28, 1992. are summarized in Panduit Corp. v. Stahlin Bros. Fiber Works, Inc, 575 F.2d 1152, 197 USPQ 726 (6th Cir. 1978), were applied by the district court. The court found that Senthat demand, (3) the absence of acceptable the total number of devices that were made The criteria for lost profits damages that

ords after this little available for the relevant period except for a handwritten log book of serial numbers that covered the final six months preceding the expiration of the patent. This log commenced with number 21,267 in July 1991, after this suit had been tured. Aerosonic argues that the burden of proof of damages is upon the patentee, and tured could not be proved, the burden could This issue arose because Aerosonic had apparently destroyed its manufacturing recpending for a year. It was the only remaining evidence of the number of devices manufacthat since the number of devices manufacnot be met.

However, if actual damages can not be ascertained with precision because the evidence available from the infringer is inadequate, damages may be estimated on the best available evidence, taking cognizance of he reason for the inadequacy of proof and Sensonics Inc. v. Aerosonic Corp.

in order to draw an adverse inference from "purpose. necessary to establish bad faith ful" action: resolving doubt against the infringer. See Westinghouse Elec. & M/g. Co., 225 U.S. 604, 620 (1912) (infringer bears the risk

when precise calculation is not possible); Kori Corp. v. Wilco Marsh Buggies and Draglines, Inc., 761 F.2d 649, 655, 225 USPQ 985, 989 (Fed. Cir.) ("Fundamental

principles of justice require us to throw any risk of uncertainty upon the wrongdoer rather than upon the injured party.") (citing Story Parchment Co. v. Paterson Parchment

rationales, one evidentiary and one not. The evidentiary rationale is nothing more The adverse inference is based on two than the common sense observation that a party who has notice that a document is relevant to litigation and who proceeds to destroy the document is more likely to have been threatened by the document than is a party in the same position who does not destroy the document. . . .

The other rationale for the inference has do with its prophylactic and punitive effects. Allowing the trier of fact to draw the inference presumably deters parties from destroying relevant evidence before it can be introduced at trial. 2

citing 2 Wigmore on Evidence § 291, at 228

See Lam, Inc. v. Johns-Manville Corp., 718 F.2d 1056, 1065, 219 USPQ 670, 675 (Fed. Cir. 1983) (any adverse consequences rest upon the infringer when inability to ascer-

failure to keep accurate or complete records). When manufacturing records were

destroyed after the litigation commenced,

tain lost profits is due to the infringer's

When the calculation of damages is im-

adverse inferences are appropriately drawn.

peded by incomplete records of the infringer,

Co., 282 U.S. 555, 563 (1931)), cert. denied,

474 U.S. 902 (1985).

and preserving records of the acts for which infringement had been charged, and it is appropriate that doubt be resolved against Aerosonic. Although Aerosonic's actions warrant adverse inferences, Sensonics does not suggest an alternative to the extrapolation method adopted by the district court. Aerosonic had the clear duty of keeping sents the best available reconstruction of the Thus the district court's extrapolation repreinfringing activity, and is sustained. (Chadbourn rev. 1979).

strong inferences adverse to the infringer may be drawn. Beatrice Foods Co. v. New England Printing and Lithographing Co., 899 F.2d 1171, 1176, 14 USPQ2d 1020, 1024 (Fed. Cir. 1990).

months' log was the only evidence of the number of devices manufactured. The log

listed 1,037 vibrators to which serial num-

The district court found that the final six

The district court then reduced the ex-trapolated production of 7,347 units by 33% resulting from device repair or inefficiency in order to account for any duplication in production of the vibrators." Sensonics the evidence. We must agree. There was no evidence that device repair or production inefficiency was reflected in the log showing the serial number that was applied when the officer of Aerosonic during this period, testi-fied that: "The serial number is put on the states that this reduction is unsupported by evidence, and contrary to the great weight of vibrator was ready for shipment or installation. Mr. Frank, who was the chief executive vibrator just before it is shipped, or before we put it into an indicator." On this procedure, any device repair or inefficiency in production would not be reflected in the serial number. bers were given during the final six months of the life of the '114 patent. From this number the district court extrapolated back, assuming an equal rate of production over the previous three years, to a total of 7,347 the date of patent expiration. See Beatrice Foods, 899 F.2d at 1176, 14 USPQ2d at units manufactured between the date notice of infringement was given to Aerosonic and 024 (damages appropriately measured by reconstruction when infringer had destroyed its invoices). Sensonics states that this exure because Aerosonic would reasonably be especially because this litigation was

trapolation gives an unrealistically low figexpected to have cut back on infringing production for the last few months of patent life, The Aerosonic log that was produced included repairs. It was the only record of repairs that was produced, and showed a repair rate of less than 0.4%, without a change of serial number for the repaired unit. Aerosonic did not establish that 33% or any other number of vibrators bore multiple serial numbers or were given new serial numbers after they were returned for repair. Further, if evidentiary imprecision is due to

litigation period requires that strong adverse

Corp. v. Forest Hills Distribs., Inc., 692 F.2d 214, 218 (1st Cir. 1982), it is not

ongoing. [4] Sensonics states that Aerosonic's fail. ure to retain production records during the inferences be drawn. We agree that this circumstance gives rise to a strong inference that the records would have been unfavorable to Aerosonie. Lam v. Johns-Manville, 718 F.2d at 1065, 219 USPQ at 675. Indeed, as the court discussed in Nation-Wide Check

tainty is resolved against the wrongdoer. Kori v. Wilco, 761 F.2d at 655, 225 USPQ at 989; Lam v. Johns-Manville, 718 F.2d at inadequacy of the infringer's records, uncer-1065, 219 USPQ at 675.

patent expiration. The statement of law is incorrect. The patent statute grants the pating, using, or selling the patented subject matter. 35 U.S.C. § 271. Any of these activities during the patent term is an infringebefore patent expiration, arguing that there Aerosonic states that damages are meatured but by the number of devices sold no record evidence of when the devices that they would have been sold mostly after entee the right to exclude others from maksured not by the number of devices manufaclisted on the serial number log were sold, but ment of the patent right.

In the absence of any evidence that a serial number was given were not separate of the total of 7,347 is clearly in error, and is significant number of the units to which a manufactures, the district court's reduction reversed. Damages shall be paid on 7,347 units. The district court's decision is modiied accordingly.

## ENHANCEMENT OF DAMAGES

conclusion of law, clearly erroneous findings of fact, or a clear error of judgment. National Presto Industries, Inc. v. The West Bend Co., 76 F.3d 1185, 1193, 37 USPQ2d 1685, 1691 (Fed. Cir. 1996). abused its discretion in declining to enhance damages in accordance with 35 U.S.C. § 284 "the court may increase the damages up to Sensonics states that the district court The district court's decision with respect to the enhancement of damages will be sustained unless it was based on an incorrect three times the amount found or assessed")

stances in which damages may be enhanced by the court. In Yarway Corp. v. Eur-Control USA, Inc., 775 F.2d 268, 277, 227 USPQ 352, 358 (Fed. Cir. 1985) the court explained that "enhancement of damages must be premised on willful infringement or bad faith." See Shatterproof Glass Corp. v. Libbey-Owens Ford Co., 758 F.2d 613, 628, 225 USPQ 634, 644 (Fed. Cir.), cert. dis-missed, 474 U.S. 976 (1985) (absent willful infringement, enhanced damages are usually Foods Co. v. New England Printing and Lithographing Co., 923 F.2d 1576, 1580, 17 USPQ2d 1553, 1556 (1991), enhanced dam-[5] Section 284 does not state the circumnot warranted). As elaborated in Beatrice ages are punitive; not compensatory. Enhancement is not a substitute for perceived

damages, but depends on a showing of willfuic inadequacies in the calculation of actual infringement or other indicium of bad faith warranting punitive damages.

damages. Since we have affirmed the finding conclude that the district court acted within its discretion in declining to enhance damenhance that the infringement was not willful, we The district court declined to ages pursuant to § 284.

## PREJUDGMENT INTEREST

USPQ [185 (1983) that prejudgment intermus Industries, Inc. v. D.M. & E. Corp., 862 F.2d 267, 274-75, 8 USPQ2d 1983, 1988 (Fed. Cir. 1988) the court held that "[t]o deny prejudgment interest based on calcula-[6] The district court denied prejudgment interest, referring to the difficulty of its caltors Corp. v. Devex Corp., 461 U.S. 648, 217 preme Court explained that the denial of prejudgment interest simply creates an incentive to prolong litigation, and that prejudgment interest in patent cases is withheld culation. It was established in General Moest is the rule, not the exception. The Suonly under exceptional circumstances. 461 U.S. at 656-57, 217 USPQ at 1189. In Lumtion difficulties alone would be error.

We have been directed to no circumstance that would make it unfair or inappropriate to the patentee was wrongly deprived, 461 U.S. at 655-56, 217 USPQ 1188. Sensonics has included in its appellate brief a reasonable methodology for calculation of prejudgment interest. Aerosonic has not challenged the rate or the arithmetic. The denial of prejudg-ment interest is reversed. On remand prejudgment interest, calculated in accordance with the Sensonics method, shall be award prejudgment interest in this case. As of prejudgment interest serves to make the patent owner whole, for damages properly include the foregone use of money of which stated in General Motors v. Devex, an award awarded.

### ATTORNEY FEES

analysis, the criteria for enhancement of damages and for the award of attorney fees. They are not necessarily the same, although the contributing factors often overlap.

[7] The award of attorney fees requires a threshold determination that this is an "ex-The district court did not separate, in its

ceptional case." 35 U.S.C. § 285. Bad faith and willful infringement are not the only criteria whereby a case may be deemed to be "exceptional," although when either is

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ney fees, and may suffice to make a case exceptional under § 285. Spectra-Physics Inc. v. Coherent, Inc., 827 F.2d 1224, 1537, 3 USPQ2d 1737, 1746 (Fed. Cir.), cert. denied, 484 U.S. 954 (1987), See Kloster Speedsteel AB v. Crucible Inc., 793 F.2d 1565, 1580, 230 USPQ 81, 91 (Fed. Cir. 1986) (bad faith in pretrial and trial stages, by counsel or party, may render the case behavior are relevant to the award of attorpresent the requirement is more readily met Litigation misconduct and unprofessional exceptional under § 285)

damages, on the ground that the infringe-ment was not willful. However, the district court did not discuss whether there were actions of bad faith sufficient to meet the criterion of "exceptional case" and to war-rant the award of attorney fees. Sensonics points to Acrosonic's pre-litigation false statement that it was not manufacturing the device but was simply reselling it, citing Mr. Frank's letter of September 21, 1989 to Senthe Eastern District of Pennsylvania. At trial Mr. Frank admitted that he ordered the copying and manufacture of the Sensonics The district court had declined to enhance sonics' counsel.2 Sensonics states that this led it to sue Budd Electronics Corporation in device.

when Aerosonic's attorney McDonald passed him a note stating "DID NOT COPY" (plaintiff's exhibit 52). These procedures, of which Sensonics complains force-Ronald Miller was testifying to similar effect At his deposition Acrosonic employee fully, demean the litigation process.

1991, opposing Sensonics motion of October 15, 1991 to lift the stay for reexamination, examination certificate had not issued, when it had issued on September 24, 1991. Before Sensonics also points to Aerosonic's mo-Aerosonic assuring the court that the rethis aspect was resolved another year passed, tion to the district court filed October 22 during which the patent expired.

tell what became of these logs. Aerosonic employees testified that they did not know how many devices were manufactured, even Combined with these actions is the matter ployees admitted that prior serial number logs existed as late as eighteen months after the suit was filed, although no witness could of manufacturing records. Aerosonic em<sup>1</sup>Mr. Frank, then president, chief executive officer, and chief of engineering at Aerosonic, wrote: "Aerosonic Corporation purchased the vibrators from another company, and if you have some legal action, it would be against them." [signed] "Herbert J. Frank, Presiden!"

started the remaining log with serial number be produced. As we have discussed, there is records, and particularly after litigation has for purposes of warranty control. Employees responsible management positions testified that they did not have any records or any tured. The Supervisor of the Electronics Department, who personally kept the final sixmonths' log of serial numbers, testified that a previous log must have existed when she 21,267, but that it no longer existed or could idea of how many devices were manufacan uncompromising duty to preserve relevant

behavior that exceeds reasonable litigation tactics. The district court made no findings concerning whether Aerosonic's actions were taken in good faith. Indeed, the court may consider the litigation actions of both sides in connection with § 285. See Beatrice Foods, 923 F.2d at 1580, 17 USPQ2d at 1556 (requiring findings of fact on the issue of bad faith). We remand for determination of whether there was bad faith or vexatious behavior or other grounds for deeming this case exceptional in terms of 35 U.S.C. §285. If so, the district court may determine whether the award of attorney fees is It is the judicial duty to refuse to condone warranted.

## APPEAL OF HERBERT J. FRANK

engineering of Aerosonic. In 1990 he became chairman, his son-in-law became president, and Mr. Frank continued as chief executive Mr. Frank was the founder, owner, presitrict court found Mr. Frank personally liable dent, chief executive officer, and chief of officer for an additional two years. The disfor inducement to infringe the '114 patent. Mr. Frank appeals.

feasance whereby persons in authority and control may in appropriate circumstances be circumstances of personal control of Calco's manufacture of the infringing products), cert. denied, 488 U.S. 968 (1988); Orthokinetics, Inc. v. Safety Travel Chairs, Inc., 806 F.2d 1565, 1578-79, 1 USPQ2d 1081, 1090 (Fed. Cir. 1986) (corporate officers who acdeemed liable for wrongdoing, when inducing direct infringement by another. See Water Technologies Corp. v. Calco, Ltd, 850 F.2d 660, 7 USPQ2d 1097 (Fed. Cir.) (finding liability for inducement based on specific fringement may be personally liable for inducing infringement). iability, is premised on a concept of torttively aid and abet their corporation's in-The tort of "inducement" under 35 U.S.C § 271(b), when applied to invoke personal

have the authority to control or discontinue production of the device after he became aware of Sensonics' patent rights or as the litigation progressed. The district court did not believe this statement. We do not discern [8] Mr. Frank testified that he did not clear error in this credibility determination, for the weight of evidence was strongly contrary to this testimony. In the absence of reversible error, the district court's ruling that Mr. Frank is liable for inducement to infringe, and jointly and severally liable for the judgment, is affirmed.

#### Summary

The district court's rulings of validity, enforceability, and infringement of the '114 patent are affirmed. Damages shall be measured on the basis of 7,347 infringing units, without enhancement. The denial of prejudgment interest is reversed. On remand the damages award and interest shall be recalculated, and the district court shall make findtional case for the purposes of 35 U.S.C. § ings on the issue of whether this is an excep-

On Mr. Frank's individual appeal, the district court's judgment is affirmed. Costs to Sensonics.

AFFIRMED IN PART, MODIFIED AND REVERSED IN PART, AND REMANDED.

### Trademark Trial and Appeal Board Patent and Trademark Office

In re Broadway Chicken Inc. Decided March 26, 1996 Serial No. 74/326,626 Released April 4, 1996

## TRADEMARKS AND UNFAIR TRADE PRACTICES

1. Practice and procedure in Patent and Trademark Office — Ex parte proceedings — In general (§325.0501)

### AND PRACTICE JUDICIAL PROCEDURE

Evidence - In general (§410.3701) Procedure

Evidence offered by applicant for registra-tion of "Broadway Chicken" mark for res-taurant services, which consists of telephone and business directory listings of restaurants

In re Broadway Chicken Inc.

is suffiongoing basis for general business use, since multiple sources of third-party use evidence cient to establish prima facie that significant number of third parties use trade names or vices related thereto, since there is no bias in directories, which were not prepared for purcorroborate each other, and since Trade-mark Trial and Appeal Board takes more for restaurant services and for goods or serposes of present case but are maintained on permissive stance with respect to introduction of evidence in ex parte proceeding than service marks containing term "Broadway" in inter partes proceeding. using term "Broadway"

## TRADEMARKS AND UNFAIR TRADE PRACTICES

Likelihood of confusion — Evidence of 2. Infringement; conflicts between marks -- In general (§335.0303.01)

Evidence of widespread third-party use, in particular field, of marks containing certain purchasers have been conditioned to look to shared term is competent to suggest that other elements of marks as means of distinguishing source of goods or services in that field.

3. Infringement; conflicts between marks —
Likelihood of confusion — Particular
marks — Confusion not likely (§335.0304.05)

Confusion is not likely to result from contemporaneous use of applicant's "Broadway Chicken" mark and registered marks "Broadway Pizza" and "Broadway Bar & Pizza" in connection with restaurant serspread third-party use of trade names and marks containing term "Broadway" for resvices, since applicant's evidence of widetaurant services, closely related goods and services, and unrelated goods and services, viewed together with differences in marks and geographic significance of term "Broadway," is sufficient in ex parte proceeding to warrant finding that confusion is not likely.

Appeal from final refusal of intent-to-use application for trademark registration (Zhaleh S. Khabiri, examining attorney. R. Ellsworth Williams, managing attorney).

Application of Broadway Chicken Inc., no. 74/326,626, filed October 28, 1992, for for restaurant services. From linal refusal of registration of mark "Broadway Chicken," registration, applicant appeals. Reversed.

Before Rice, Hanak, and Hohein, administrative trademark judges. 1613

this court, are entitled to the benefit of the patent violate the written description requirement of section 112, ¶1. But to state the argument is to realize its objection; as we discussed above, the written description of the '835 patent provides ample support for the ordinary and accustomed meaning of the terms of the '835 claims. Thus, the '835 claims, as construed by the district court and filing date of the '586 application. No violation of section 102(b)'s on-sale bar has occurred

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Zebco has failed to demonstrate to this court that the disputed claim terms of claim 1 of the '835 patent should be interpreted in tioned thereon, was not erroneous. We also hold that the district court correctly detera way other than their ordinary and accus-comed meaning. Therefore, we find that the district court's claim interpretation, and the summary judgment of infringement condipatent, as construed, is not invalid. The judgmined that the relevant claim of the '835 ment of the district court is affirmed.

AFFIRMED.

#### U.S. Court of Appeals Federal Circuit

In re Dembiczak

Decided April 28, 1999 No. 98-1498

## 1. Patentability/Validity - Obviousness -Combining references (§115.0905)

cation as obvious over combination of prior art references must be reversed, since obviousness analysis in decision is limited to discussion of ways that multiple references can be combined to read on claimed invenbine references, and does not include specific tion, but does not particularly identify any or inferential findings concerning identification of relevant art, level of ordinary skill in art, nature of problem to be solved, or any other factual findings that might support Decision rejecting claims in utility applisuggestion, teaching, or motivation to comproper obviousness analysis.

### Patentability/Validity - Anticipation -Double patenting (§115.0708)

be found between design and utility patents in rare cases, but such rejection is approprimeaning that subject matter of claims of patent sought to be invalidated would have Obviousness-type double patenting may been obvious from subject matter of claims ate only if claims of two patents cross-read of other patent, and vice-versa.

## 3. Patentability/Validity - Anticipation -Double patenting (§115.0708)

jack-o-lantern face would not have been ob-vious variants of their pending utility claims directed to trash bag decorated to resemble Halloween pumpkin when filled with trash patent application cannot constitute design reference that is "basically the same as" specific designs claimed in applicants or leaves, since textual description of "facial indicia" on bag found in claims of utility Applicants' design patents for bag with patentably distinct design patents.

Appeal from the U.S. Patent and Trademark Office. Board of Patent Appeals and Interferences.

Application of Anita Dembiczak and Benson Zinbarg for utility patent (application serial no. 08/427,732). From decision sustaining rejections of claims in application, applicants appeal. Reversed:

David P. Gordon and Thomas A. Gallagher, Stamford, Conn., for appellants, John M. Whealan, associate solicitor, Albin Nicholson, associate solicitor, Office of F. Drost, acting solicitor, and David R. the Solicitor, Arlington, Va., for appellee Before Mayer, chief judge, and Michel and Clevenger, circuit judges.

#### Clevenger, J.

Patent Appeals and Interferences, of all pending claims in their Application No. 08/427,732. See Ex Parte Dembiczak, No. 96-2648, slip op. at 43 (May 14, 1998). Because the Board erred in sustaining rejections of the pending claims as obvious under 35 U.S.C. § 103(a) (Supp. 1998), and for peal the rejection, upheld by the Board of Anita Dembiczak and Benson Zinbarg appatenting, obviousness-type double reverse.

74.A decorative bag for use by a user with claims vary, independent claim 74 is perhaps most representative:

measures, such as greasing the bags with petroleum jelly and tying them to trees. See R. Piller, "Halloween Hopes Die on the Vine," Hous. Chron., Oct. 19, 1990, at 13A. The road to profits has proved much easier note, the invention solves the long-standing problem of unsightly trash bags placed on the curbs of America, and, by fortuitous names, including Giant Stuff-A-Pumpking, Funkins, Jack Sake, and Bag-O-Fune—have erally speaking, a large trash bag made of ers, who bought more than seven million units in 1990 alone. Indeed, in 1990, the popularity of the pumpkin bags engendered orange plastic and decorated with lines and facial features, allowing the bag, when filled Halloween-style pumpkin, or jack-o'-lantern. As the inventors, Anita Dembiczak and Benhappenstance, allows users to express their storing garbage, leaves, or other household debris awaiting collection. Embodiments of undisputedly been well-received by consumrash of thefts around Houston, Texas, son Zinbarg (collectively, "Dembiczak") whimsical or festive nature while properly leading some owners to resort to preventative the invention-sold under a variety with trash or leaves, to

than the path to patentability, however. In Board of Patent Appeals and Interferences July 1989, Dembiczak filed a utility patent "the Board") reversed the Examiner's retion, filing a continuation application to to the Board, which sustained the rejection in kin bags. In a February 1992 appeal, the jection, but entered new grounds for rejection. Dembiczak eiected to continue prosecuaddress the new grounds for rejection. Thereafter, the invention made a second appearance before the Board, in April 1993, when the Board both sustained the Examiner's rejection and again entered new grounds for (the instant application). And again the Examiner's rejection was appealed May 14, 1998, decision. See Dembiczak, rejection. Again, a continuation application application generally directed to the slip op. at 43. was filed

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claims directed to various embodiments of the pumpkin bag. Claims 37, 49, 51, 52, 58 through 64, 66 through 69, and 72 through 81 are at issue in this appeal. Though the The patent application at issue includes

resemble a The invention at issue in this case is, gen-

trash filling material, the bag simulating the general outer appearance of an outer surface of a pumpkin having facial indicia a flexible waterproof plastic trash or leuf tured orange in color for the user to simulate the general appearance of the outer an outer surface which is premanufacthereon, comprising: bag having

skin of a pumpkin, and having facial indicia including at least two of an color outer surface for forming a face pattern on said orange color outer surface to simulate the general outer appearance of a decorative pumpkin with a face eye, a nose and a mouth on the orange

said trash or leaf bag having first and second opposite ends, at least said second end having an opening extending substantially across the full width of said trash or leaf bag for receiving the trash filling material.

thereon,

filled with trash filling material and closed, said trash or leaf bag takes the form and general appearance of a pumpwherein when said trash or leaf bag kin with a race thereon.

namely 37, 52, 72, and 74, contain limita-tions that the bag must be "premanulac-tured orange in color," have "facial indicia." have openings suitable for filling with trash the bag be "waterproof." Claim 52 recites a "method of assembling" a bag with the genand claim 74, as shown above, requires that material, and that when filled, the bag must have a generally rounded appearance, like a pumpkin. Independent claims 37, 52, and 72 add the limitation that the bag's height must at least 36 inches. Claim 72 requires that the All of the independent claims on appeal bag be made of a "weatherproof material

ral characteristics of apparatus claim 37.

day", describing how to teach children to make a "Crepe Paper Jack-O-Lantern" out of a strip of orange crepe paper, con-(1) pages 24-25 of a book entitled "A Handbook for Teachers of Elementary Art." by Holiday Art Activities ("Holi-The prior art cited by the Board includes: struction paper cut-outs in the shape of facial features, and "wadded newspapers"

as filling; (2) page 73 of a book entitled "The Everything Book for Teachers of Young Chil-

dren," by Martha Shapiro and Valerie describing a method of making a "paper bag pumpkin" Indenbaum ("Shapiro").

by stuffing a bag with newspapers, painting it orange, and then painting on facial features with black paint;

(3) U.S. Patent No. 3,349,991 to Leonard Kessler, entitled "Flexible Container" ("Kessler"), describing a bag apparatus wherein the bag closure is accomplished by the use of folds or gussets in the bag

(4) U.S. Patent No. Des. 310,023, issued August 21, 1990 to Dembiczak ("Dembiczak 22, 1990 to Dembiczak ("Dembiczak 22, v023"), a design patent depicting a bag with a jack-o'-lantern face; (5) U.S. Patent No. Des. 317,254, issued June 4, 1991 to Dembiczak ("Dembiczak June 4, 1991 to Dembiczak ("Dembiczak material;

'254"), a design patent depicting a bag with a jack-o'-lantern face; and,

(6) Prior art "conventional" plastic lawn or trash bags ("the conventional trash

18-19. Dependent claims 49 and 79, which inclinds a held that the missing facial indicia elements were provided by the Holiday and Shapiro include a "gussets" limitation, were considered obvious under similar reasoning, except that the references cited against them inent claims on appeal and the orange plastic Dembiczak, slip op. at 18. The Board further references' description of painting jack-oiner's final rejection of all the independent claims (37, 52, 72, 74) under 35 U.S.C. § 103, holding that they would have been obvious in light of the conventional trash bags in view of the Holiday and Shapiro references. The Board determined that, in its view of the prior art, "the only difference between the invention presently defined in the independtrash bags of the prior art and the use of such bags resides in the application of the facial Using this art, the Board affirmed the Examindicia to the outer surface of the bag." bags")

and the trash filling material. The Board also dependent claims—e.g., color, the inclusion would all be obvious variations of the depicheld that the design patents depict a generalplies the missing limitations, such as the "thin, flexible material" of manufacture, the stated that the various limitations of the rounded bag with jack-o'-lantern facial leaves as stuffing, and the dimensions-The Board also affirmed the Examiner's two Dembiczak design patents ('023 and '254) and Holiday. See id. at 12. The Board indicia, and that the Holiday reference suporange color, the initially-open upper end, obviousness-type double patenting rejection of all the independent claims in light of the cluded Kessler. See id. at 7.

reference, the obviousness-type double patenting rejection of dependent claim 49. See grounds and with the inclusion of the Kessler for obviousness-type double patenting, the Board held that the claims of the Dembiczak al structural limitations of the pending utility claims, and thus the design patents were merely obvious variations of the subject matter disclosed in the utility claims. See id. at 11. The Board further upheld, on similar tions in the Dembiczak design patents. See design patents "do not exclude" the additionid. at 8-9. In addition, using a two-way test id. at 12.

This appeal followed, vesting twith jurisdiction pursuant to 28 1295(a)(4)(A) (1994).

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ining any factual findings for clear error.

See, e.g., In re Zurko, 142, F.3d 1447, 1459,

46 USPQ2d 1691, 1700 (Fed Cir.) (en
banc), cert. granted, 119 S. Ct. 401 (1998). at 467. Miles Labs. Inc., Inc. v. Shandon Inc., 997 E.2d 870, 877, 27 USPQ2d 1123, 1128 (Fed. Cir. 1993). We therefore review the ultimate determination of obviousness inquiries including: (1) the scope and content of the prior art; (2) the level of ordinary skill in the prior art; (3) the differences between the claimed invention and the prior art; and (4) objective evidence of nonobviousness. See Graham, 383 U.S. at 17-18, 148 USPQ without deference to the Board, while exam-(Supp. 1998); see Graham v. John Deere Co., 383 U.S. 1, 14, 148 USPQ 459, 465 (1966). The ultimate determination of differences between it and the prior art "are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art." 35 U.S.C. § 103(a) whether an invention is or is not obvious is a legal conclusion based on underlying factual A claimed invention is unpatentable if the

overruled on other grounds by Nobel-pharma AB v. Implant Innovations, Inc. 141 F.3d 1059, 46 USPQ2d 1097 (Fed. Cir. 103 quoted above, with the phrase "at the time the invention was made." For it is this tempting but forbidden zone of hindsight,"
tempting but forbidden zone of hindsight,"
tempting but forbidden zone of hindsight," Our analysis begins in the text of section see Loctite Corp. v. Ultraseal Ltd., 781 F.2d 861, 873, 228 USPQ 90, 98 (Fed. Cir. 1985),

e.g., W.L. Gore & Assoc., Inc. v. Garlock. Inc., 721 F.2d 1540, 1553, 220 UPSQ 303, 313 (Fed. Cir. 1983). Close adherence to this claims pursuant to that section. Measuring a claimed invention against the standard es-tablished by section 103 requires the oft-difguided only by the prior art references and the inventor taught is used against its teacher." Id. 1998), when analyzing the patentability of ficult but critical step of casting the mind back to the time of invention, to consider the thinking of one of ordinary skill in the art, the then-accepted wisdom in the field. See, methodology is especially important in the case of less technologically complex inventions, where the very ease with which the invention can be understood may prompt one "to fall victim to the insidious effect of a hindsight syndrome wherein that which only

bination "only by showing some objective teaching [leading to the combination]"); In re Fine, 837 F.2d 1071, 1075, 5 USPQ2d 1596, 1600 (Fed. Cir. 1988) (evidence of teaching or suggestion "essential" to avoid motivation to combine prior art references. See, e.g., C.R. Bard, Inc. v. M3 Sys., Inc., 157 F.3d 1340, 1352, 48 USPQ2d 1225, 1232 (Fed. Cir. 1998) (describing "teaching obviousness holding"); În re Rouffet, 149 F.3d 1350, 1359, 47 USPQ2d 1453, 1459 1780, 1783 (Fed. Cir. 1992) (examiner can hindsigh); Ashland Oil, Inc. v. Delta Resins & Refractories, Inc. 776 F.2d 281, 297, 227 USPQ 657, 667 (Fed. Cir. 1985) (district best äs specifically . . . the reasons one of ordinary select the references and combine them"); In re Fritch, 972 F.2d 1260, 1265, 23 USPQ2d satisfy burden of obviousness in light of comquired). Combining prior art references defense against the subtle but powerful attraction of a hindsight-based obviousness analysis is rigorous application of the requirement for a showing of the teaching or an "essential evidentiary component of an (Fed. Cir. 1998) ("the Board must identify skill in the art would have been motivated to court's conclusion of obviousness was error when it "did not elucidate any factual teachings, suggestions or incentives from this prior art that showed the propriety of combina-. See also Graham, 383 U.S. at 18, 148 USPQ at 467 ("strict observance" of factual predicates to obviousness conclusion rewithout evidence of such a suggestion, teaching, or motivation simply takes the inventor's disclosure as a blueprint for piecing together the prior art to defeat patentability—the essence of hindsight. See, e.g., Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1138, Our case law makes clear that the or suggestion or motivation (to combine

of the art that existed at the time."). In this 227 USPQ 543, 547 (Fed. Cir. 1985) ("The invention must be viewed not with the blue print drawn by the inventor, but in the state case, the Board fell into the hindsight trap.

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In re Dembiczak

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in the art, or, in some asses, from the nature of the problem to be solved, see Pro-Mold & Tool Co. v. Great Lakes Plastics, Inc., 75 F.3d 1568, 1573, 37 USPQ2d 1626, 1630 (Fed. Cir. 1996), Para-Ordinance Mfg. v. SGS Imports Intern., Inc., 73 F.3d 1085, 1088, 37 USPQ2d 1237, 1240 (Fed. Cir. 1995), although "the suggestion more often standing alone, are not "evidence." E.g., McElmurry v. Arkansas Power & Light Co., 995 F.2d 1576, 1578, 27 USPQ2d 1129, 1131 (Fed. Cir. 1993) ("Mere denials and conclusory statements, however, are not sufmode of using the invention is unaccompaninadequate to support the rejection."). In addition to demonstrating the propriety of an important purposes, including: (1) clear explication of the position adopted by the Examiner and the Board; (2) identification of the factual disputes, if any, between the review on appeal. Here, however, the able, however, does not diminish the requireing must be clear and particular. See, e.g., C.R. Bard, 157 F.3d at 1352, 48 USPQ2d at 1232. Broad conclusory statements regarding the teaching of multiple references, ficient to establish a genuine issue of material fact."); In re Sichert, 566 F.2d 1154, 1164, 196 USPQ 209, 217 (CCPA 1977) the specification does not teach the best ied by evidence or reasoning and is entirely obviousness analysis, particular factual findings regarding the suggestion, teaching, or motivation to combine serve a number of Board did not make particular findings recomes from the teachings of the pertinent references," Rouffer, 149 F.3d at 1355, 47 ment for actual evidence. That is, the show-"The examiner's conclusory statement that applicant and the Board; and (3) facilitation garding the locus of the suggestion, teaching, or motivation to combine the prior art We have noted that evidence of a sugges-JSPQ2d at 1456. The range of sources availtion, teaching, or motivation to combine may llow from the prior art references them selves, the knowledge of one of ordinary skil references.

prior art references, e.g., the conventional trash or yard bags, and the Holiday and tion, the Board simply stated that "the Holiday and Shapiro references would have All the obviousness rejections affirmed by the Board resulted from a combination of Shapiro publications teaching the construction of decorated paper bags. See Dembic-zak, slip op. at 6-7. To justify this combina-

a "premanufactured orange" bag material, see Dembiczak, slip op. at 21, finds that Shapiro teaches the use of paper bags in various sizes, including "large", see id. at 22-23, and concludes that the substitution of orange plastic for the crepe paper of Holiday and the paper bags of Shapiro would be an obvious design choice, see id. at 24. Yet this reference-by-reference, limitation-by-limita-tion analysis fails to demonstrate how the tional trash or lawn bags to yield the claimed invention. See Rouffet, 149 F.3d at 1357, 47 USPQ2d at 1459 (noting Board's failure to Fritch, 972 F.2d at 1265, 23 USPQ2d at 1783; Fine, 837 F.2d at 1075, 5 USPQ2d at 1600; Ashland Oil, 776 F.2d at 297, 227 USPQ at 667. To the contrary, the obviousness analysis claimed invention. For example, the Board finds that the Holiday bag reference depicts Holiday and Shapiro references teach or explain, when analyzing the prior art, "what specific understanding or technical principle ences cited against the pending claims, the ter of law, cannot stand. See C.R. Bard, 157 F. 3d at 1352, 48 USPQ2d at 1232; Rouffet, in the Board's decision is limited to a discusreferences can be combined to read on the suggest their combination with the conven-Because we do not discern any finding by the or motivation to combine the prior art refer-Board's conclusion of obviousness, as a matsion of the ways that the multiple prior art 149 F.3d at 1359, 47 USPQ2d at 1459, Board that there was a suggestion, teaching . would have suggested the combination"

shortcomings of the decision below and we decline to consider it. See, e.g., In re Robertson, 169 F.3d 743., 49 USPQ2d 1949, 1951 (Fed. Cir. 1999) ("We decline to consider [the Commissioner's] newly-minted theory as an alternative ground for upholding the agency's decision."); In re Soni, 54 F.3d 746, 751, 34 USPQ2d 1684, 1688 (Fed. Cir. 1995); In re Hounsfield, 699 F.2d 1320, 1324, 216 USPQ 1045, 1049 (Fed. Cir. noting that at least two design patents (in the record but not cited against the presently pending claims) teach the placement of "graphical information, including text, designs, and even facial indicia, to colored bags." Resp t Br. at 16. This new analysis, regarding the level of skill in the art ("a designer and manufacturer of trash and leaf ornamental and graphic design of such bags"), Resp't Br. at 14, the relationship between the fields of conventional trash bags the ancillary, corollary, and atypical uses of trash' bags such as their application in hobby and art projects"), Resp t Br. at 15, and skill in a particular art to select elements trash and leaf bags would have recognized the paper bag in Shapiro to be a trash bag and therefore would have been motivated to sioner also appears to cite additional referappeal, does little more than highlight the from that relied upon by the Board, arguing bags, particularly one specializing in the and children's crafts, respectively ("[t]he artisan would also have been well aware of the particular features of the prior art referdisclosed in references from a wholly different field ("a designer and manufacturer of combine it with the admitted prior art plastic trash and leaf bags to arrive at the claimed invention"), Resp't Br. at 15. The Commis-983) (rejecting an "attempt[ ] by the Comand Trademark Office"). Because the Board has not established a prima facie case of marks ("Commissioner") attempts to justify Commissioner must do what the Board did ences that would motivate one of ordinary ences in support of his obviousness analysis, apparently cut from whole cloth in view of missioner to apply a new rationale to support the rejection."); see also 35 U.S.C. § the Board's decision on grounds different that one of ordinary skill in the art would have been motivated to combine the refer-Of course, in order to do so, the not do below: make specific findings of fact 44 (1994) (an appeal to the Federal Circuit "is taken on the record before The Patent The Commissioner of Patents and Trade obviousness, see In re Bell, 991 F.2d 781 ences.

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we therefore reverse the obviousness rejec-1993) ("The PTO bears the burden of estabtions, and have no need to address the parlishing a case of prima facie obviousness."), ties' arguments with respect to secondary 26 USPO2d 1529, 1531 (Fed. Cir. factors.

prevent the applicant from expanding the grant of the patent right beyond the limits prescribed in Tile 35. See. e.g., In re Braat, 937 F.2d. 589, 592, 19 USPQ2d 1289, 1291-92 (Fed. Cir. 1991); In re Longi, 759 F.2d 887, 892; 225 USPQ 645, 648 (Fed. Cir. 1985). See also 35 U.S.C. § 154(a)(2) (Supp. 1998) (discussing patent term). The Dembiczak also asks this court to reverse the Board's rejection of the pending claims is a judicially-created doctrine that seeks to 19 USPQ2d at 1292 (quoting In re Vogel, 422 F.2d 438, 441, 164 USPQ 619, 622 (CCPA 1970)). Thus, unless a claim sought the claims in an earlier patent, the claim must be rejected. See In re Goodman, 11 F 3d 1046, 1052, 29 USPQ2d 2010, 2015 (Fed. Cir. 1993); Vogel, 422 F.2d at 441, for obviousness-type double patenting, which of an invention claimed by the same inventor in an earlier patent. Braat, 937 F.2d at 592, 64 USPQ at 622. This question is one of Trade Comm'n, 988 F.2d 1165, 1179, 26 doctrine prohibits claims in a second patent law, which we review de novo. See Good-man, 11 F.3d at 1052, 29 USPQ2d at 2015; in the later patent is patentably distinct from which define "merely an obvious variation" USPQ2d 1018, 1029 (Fed. Cir. 1993).

(Fed. Cir. 1983) (noting that, while theoretically possible, "[d]ouble patenting is rare in the context of utility versus design patents"); In re Thorington, 418 F.2d 528, 536-37, 163 USPQ 644, 650 (CCPA 1969) (Double patrare cases, obvious-type double patenting may be found between design and utility enting between a design and utility patent is aesthetic effect of a design patent or applica-tion are the same as those recited in the claims of a utility patent or application as producing a novel structure."); In re Phelan, 205 F.2d 183, 98 USPQ 156 (CCPA 1953); [2] The law provides that, in some very patents. See Carman Indus., Inc. v. Wahl, 724 F.2d 932, 939-40, 220 USPQ 481, 487 possible "if the features producing the novel

In re Barber, 81 F.2d 231, 23 USPQ 137 (CCPA 1936): In re Hargraves, 53 F.2d 900, 11 USPQ 240 (CCPA 1931). In these cases, a "two-way" test is applicable. See Carman, 724 F.2d at 940, 220 USPQ at 487. Under this test, the obviousness-type double patenting rejection is appropriate only if the claims of the two patents cross-read, meaning that "the test is whether the subject matter of the matter of the claims of the other patent, and vice versa." Id., 220 USPQ at 487. See ulso Braat, 937 F.2d at 593, 19 USPQ2d at 1292 claims of the patent sought to be invalidated would have been obvious from the subject (explaining two-way test).

claim 49, was judged obvious in light of the In making its double patenting rejection, the Board concluded that all but one of the pending claims of Dembiczak's utility application would have been merely an obvious design patents—the Dembiczak '023 and '254 references-in light of the Holiday reference. The remaining claim, dependent combination of the Dembiczak design putents, Holiday, and the Kessler reference.
[3] Acknowledging that the two-way test variation of the claims of the earlier-issued

must first be a basic design reference in the prior art, the design characteristics of which are "basically the same as the claimed design." In re Borden, 90 F.3d 1570, 1574, 39 USPORT, 673 F.2d 1524, 1526 (Fed. Cir. 1996); In re Rosen, 673 F.2d 388, 391, 213 USPO, 347, 350 (CCPA, 1982). The phrise "having facial indicia thereon" found in the claims of design choice as evidenced by the Holiday handbook." and that therefore, in view of Holiday, the claims of the design patents were obvious variants of the pending utility was required by Carman, 724 F.2d at 940, 220 USPQ at 487, the Board concluded that design patents does not exclude the features making the bag, the size or thickness of the bag ... or the use of various types of filling material .... The particular details of the facial indicia would have been a matter of the pending utility application is not a design reference that is "basically the same as the claimed design." *Borden*, 90 F.3d at 1574, 39 USPQ2d at 1526. In fact, it describes "the design claimed in each of appellants" the bag, the use of a plastic material for patent claims. See Dembiczak, slip op. at 11.
We disagree. In order for a design to be pertaining to the construction and color of unpatentable because of obviousness, there precious little with respect to design charac-

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an invention whereas design patent protec-tion concerns the ornamental or aesthetic features of a design.") Indeed, we note that the two design patents at issue here—the Dembiczak '023 and '254 patents—were considered nonobyious over each other, and sioner may require the application to be restricted to one of the inventions."); 37 C.F.R. § 1.142. The position adopted by the sign choice" evinces a misapprehension of the subject matter of design patents. E.g., Carman, 724 F.2d at 939 n.13, 220 USPQ at were even the subject of a restriction requirement. See 35 U.S.C. § 121 (1994) ("If two or more independent and distinct inventions are claimed in one application, the Commisindicia found in the claims of the utility patent application makes obvious the specific designs claimed in the (patentably distinct) Dembiczak design patents-would presumably render obvious, or even anticipate, all design patents where a face was depicted on a bag. But this, of course, is not the law; the textual description cannot be said to be a reference "basically the same as the claimed design," of the design patents at issue here. Borden, 90 F.3d at 1574, 39 USPQ2d at 1526 (internal quotation marks omitted). The Board's conclusion of obvious-486 n.13 ("Utility patents afford protection teristics. The Board's suggestion that the design details were simply "a matter of defor the mechanical structure and function of Board-that a textual description of facial ness is incorrect.

pending utility claims are obvious variations patents. See Carman, 724 F.2d at 939, 220 USPQ at 487 (both prongs of the two-way required for obviousness-type double patenting). The double patenting rejections Because we find that the Board erred in concluding that the design patents were obvious variants of the pending utility claims, we need not address the other prong of the two-way double patenting test-whether the of the subject matter claimed in the design are reversed.

Because there is no evidence in the record against the pending claims, the obviousness of a suggestion, teaching, or motivation to combine the prior art references asserted rejections are reversed. In addition, because der obvious the design patents, the double viousness-type double patenting, and because the pending utility claims do not renthe Board misapprehended the test for obpatenting rejections are also reversed

REVERSED

## U.S. District Court

University of Iowa Research Foundation v. Beveridge, DeGrandi, Weilacher & Young L.L.P.

Southern District of Iowa

No. 3-98-CV-90013

## Decided August 26, 1998

#### PRACTICE PROCEDURE JUDICIAL

### - Personal jurisdiction 1. Jurisdiction (§405.11)

activities at Iowa, given that defendants are charged only with negligently failing to pay maintenance fee on single patent, and that all work done in connection with that patent firm and attorney named as defendants in action for professional malpractice, since defendants did not "purposefully direct" their was performed in Washington, D.C., since single claim of legal malpractice with respect to payment of maintenance fee in Washington, D.C. cannot be said to have "arisen out of" or resulted from attorney-client relationsince nature and quality of defendants' con-"purposefully availed" themselves of privileges and protections of doing interstate patent work for plaintiff, and since quantity of defendants' contacts with Iowa alone does Federal court in Iowa lacks specific personal jurisdiction over Washington, D.C. law ship that began in Iowa 30 years earlier, tacts with lowa do not demonstrate how they not change conclusion that assertion of personal jurisdiction over defendants would be fundamentally unfair. Action by University of Iowa Research Foundation against Beveridge, DeGrandi, Weilacher & Young L.L.P. and Richard G. Young for professional malpractice. On defendants' motion to dismiss for lack of personal jurisdiction. Granted. Edmund J. Sease and Jeffrey D. Harty, of Zarley, McKee, Thomte, Voorhees & Sease, Des Moines, Iowa, for plaintiff.

of Austin, Gaudineer & Comito, Des Moines; Steven Verveniotis and Mark K. Lee H. Gaudineer and Carlton G. Salmons, Anesh, of Wilson, Elser, Moskowitz, Edel-

man & Dicker, New York, N.Y., for deendants.

University of Iowa v. Beveridge, DeGrandi, Weilacher & Young

#### Pratt, J.

Rule 7.1, defendant moves to dismiss this argument on July 30, 1998. The court grants the defendant's motion to dismiss for want of Pursuant to the Federal Rules of Civil Procedure 12(b)(2), 12(b)(3), and Local legal malpractice action for lack of personal jurisdiction and venue. The court heard oral personal jurisdiction. The court does not. therefore, reach the issue of venue.

#### Background

Plaintiff, the University of Iowa Research Foundation ("UIRF"), is a nonprofit corporation organized under the laws of the State of lowa having its principal place of business in lowa City, lowa. UIRF is charged with obtaining and licensing patents covering inventions arising during the normal course of research and teaching at the University of

principal place of business is located in Washington, D.C.; Beveridge has no other Grandi, Weilacher & Young law firm and one of its partners, Richard G. Young, will be referred to collectively as Beveridge. Beveridge specializes in patent matters and represents clients before the United States Patent and Trademark Office ("PTO"). Its Beveridge, The two defendants,

office in any state.
In 1988, UIRF hired Beveridge to represent UIRF before the PTO in the prosecuent. Young handled the legal work before the PTO associated with the '251 patent. Since resulting in the issuance of at least 21 patents. In 1985, Beveridge represented UIRF The '251 patent and '324 patents share the tion and maintenance of U.S. Patent No. 4,900,251 ("the '251 patent"). No written contract was ever executed between UIRF and Beveridge with respect to the '251 pat-1963, Beveridge has prepared and filed other patent applications on behalf of the UIRF in matters relating to the preparation and filing of U.S. Patent No. 4,037,324 ("the same inventor. UIRF claims that Beveridge has managed a foreign patent program relat-'324 patent"), another orthodontic device.

Beveridge to personal jurisdiction. dge states:

ed to these orthodontic dental devices, presumably on UIRF's behalf.<sup>1</sup>
UIRF alleges that on or about June 23,

due, thereby causing the term of the '251 patent to lapse. UIRF alleges further that Beveridge did not tell UIRF of the failure to 1993, UIRF sent a check to Beveridge instructing Beveridge to pay a maintenance fee to the PTO to extend the term of the '251 patent. The maintenance fee was due in the PTO on February 13, 1994. UIRF alleges that Beveridge negligently failed to pay the maintenance fee for the '251 patent when pay the fee and of the patent's lapse until Beveridge later took action to attempt to remedy the lapse.

matter jurisdiction is based on diversity under 28 U.S.C. § 1332. Venue is claimed proper under 28 U.S.C. § 1391 (1998). UIRF prayed for an unspecified amount of On February 2, 1998, UIRF filed suit against Beveridge in this court alleging one count of professional malpractice. Subject ty payments for licenses granted under the 251 patent, and the costs associated with litigating against infringers' claims of intervening fights. UIRF did not file suit in the damages to compensate for the loss of royal District of Columbia.

Beveridge responded by filing its Motion to Dismiss on April 16, 1998. Beveridge asserts that dismissal is warranted because both personal jurisdiction and venue are acking. As to personal jurisdiction, Bever-

ally (or representation of the Plaintiff specifically), advertise, travel to, hold properstantial in the context of a due process analysis, and thus insufficient to subject any act which could be deemed malpractice in Iowa. In short, [Beveridge's] contact with the forum state through its corre-Beveridge] did not solicit business generty in, perform legal services in, or commit spondence with the Plaintiff was insub-

avers that neither Young nor his law firm is Defs. Mem. Supp. Mot. Dismiss at 8-9.) Through the affidavit of Richard G. Young "Young Affidavit"), Beveridge further licensed to practice in any state or federal foung states that neither he nor any member of his firm traveled into Iowa to meet with representatives of UIRF, an invoice dated September 30, 1985 reveals some City in connection with the '324 patent. The member of the law firm traveled to court in Iowa, or resides in Iowa.

<sup>&</sup>lt;sup>1</sup>The '251 patent, disclosing an orthodontic ental device was invented by the late George F. dental device, was invented by the late George F. Andreason, a faculty member at the University of lowa Dental College.

<sup>&</sup>lt;sup>1</sup>This "foreign patent program" is not explained in any more detail in UIRF's brief.

: Caesar Enterprises Inc.

above identified application and, as represented by Petitioner and the potential opposer, ultimately may even avoid the need for an tration of the majority of the goods in the permitting a Request to Divide at this stage of the application process will permit regis-;--;:: Rule 2.87(c). In fact, ted by Trademark opposition.

DECISION

Accordingly, the Petition is granted. The

application filed will be forwarded to the U/Divisional Unit for consideration of the Request to Divide.

its extension requests while the Request to This decision does not stay the time for the potential opposer to file further. Requests for Extension of Time to File a Notice of Opposition. Thus, the potential opposer should continue to Divide is pending.

Court of Appeals Federal Circuit

U.S.

intent not to claim omitted subject matter, is

remediable error.

5. Patentability/Validity -

failure to appreciate scope of invention at time of original patent grant, and thus initial

> C.R. Bard Inc. v. M3 Systems Inc. No. 96-1165

1. Patentability/Validity — Anticipation Identity of elements (§115.0704)

"gun" for movement both toward and away from housing, which is structure that limits in two claims requiring slit in stylet head dles are invalid for anticipation is unsupported by substantial evidence, since claimed all claims, as well as in additional limitation Verdict that patent claims for biopsy neeneedles differ from prior art needles in flange structure for coupling needles to biopsy flange.

2. Patentability/Validity - Obviousness Combining references (§115.0905)

unsupported by evidence, since no prior art provided suggestion or motivation to make needle assembly with structure shown and sential evidentiary component of obviousness holding, verdict of invalidity on that ground needles was obvious in view of prior art is claimed in patent, and since absent this es-Verdict that invention of patent for biopsy cannot stand as matter of law.

Practice and procedure in Patent and Frademark Office - Certificate of correction - Correction of named inventor (§110.1205)

Practice and procedure in Patent and Trademark Office - Reissue - In general (§110.1301)

rect inventorship may be filed during reissue issue, since prosecution history shows that error in inventorship was described in reissue application and corrected by appropriate petition, filed and processed while reissue application was pending, since petition to corproceedings, and since error in inventorship was corrected before reissue patent was inventorship was improperly made by re-Evidence does not support verdict holding patent invalid on ground that correction of granted. 4. Practice and procedure in Patent and Trademark Office — Reissue — In general (§110.1301) structure.

enable addition of claims to subject matter

atentubility/Validity — Specification — Written description (§115.1103) Decided September 30, 1998

overlap in needle movement; it is incorrect to fication and then hold claims invalid because ing of needles as having some overlap in of sequential movement in patent requires they are unsupported by written description. tial energizing" of biopsy needles cannot be held invalid on ground that written description of all overlap of needle movement, since claims must be construed in accordance with rest of specification, not contrary to it, since specification illustrates sequential energizmovement, since no usage or exemplification elimination of all overlap, and since correct interpretation of claims thus allows for slight construe claims in manner contrary to speci-Claims for biopsy gun requiring "sequention does not describe how to obtain elimina-

6. Patentability/Validity - Obviousness Combining references (§115.0905)

neous cocking respectively, since no cited reference suggests structure employed in gun Invention of patent for biopsy gun providing mechanical "sequential energizing" or cocking of its two biopsy needles was not obvious over combination of plaintiff's prior biopsy guns, which allowed for sequential manual cocking and mechanical, simultaof patent, or mechanical sequential energizing, or other features of claimed gun. - Literal infringement 7. Infringement (§120.05) Patent construction - Claims - Means (§125.1307)

finding that "means" claims at issue are not energizing means is substantially different limited to structure in specification, since means-plus- function limitation is not made tion of sequential energizing, since cluimed structure employing rotational tensioning as from energizing structure in accused gun; existence of other claims in patent which specifically state structure does not warrant cifically claiming disclosed structure which Means plus function claims of patent for biopsy gun providing mechanical "sequential energizing" or cocking of its two biopsy needles are not infringed by accused devices, open-ended by presence of other claims speunderlies means clause or equivalent of that even though accused guns also perform func-Primary purpose of reissue statute is to not claimed in original patent, and inventor's 48 USPQ2d

simply because information was in existence omission or misstatement, that was intended to and did mislead examiner into taking favorable action that would not otherwise have been taken; intent to deceive or mislead must be established by clear and convincing evidence, and deceptive intent is not inferred ment of patent, any omission must be of fact material to patentability, and it must be deliberate misrepresentation, whether by simply because patentability ensued, since. to establish culpability for fraud in procure-There is no presumption that information not filed by patent applicant was material that was not presented to examiner.

## 9. Patent misuse - Federal antitrust issues (§140.07)

had been gained illegally, patent right to exclude does not constitute monopoly power ventions and market situations militate against per se rules; unless patent had been obtained by fraud such that market position There is no presumption that patent-based right to exclude necessarily establishes market power in antitrust terms, since virtually unlimited variety and scope of patented inprohibited by Sherman Act.

# 10. Patent misuse — Improper procurement and enforcement (§140.03)

### Patent misuse - Federal antitrust issues (§140.07)

competition, since establishing liability on such ground requires showing that patent was fraudulently procured, that patente's cess, and since, in view of incorrect verdicts udgment cannot be sustained as matter of related commercial activity was coupled with violations of Sherman Act's Section 2, and that patentee had specific intent to monopolize, engaged in anti-competitive conduct, and had dangerous probability of sucfraud in procurement of patents in suit, not be sustained on ground that patentee used fraudulently obtained patent to restrain udgment finding antitrust violation can-

# Patent misuse — Improper procurement and enforcement (§140.03)

### Patent misuse - Federal antitrust issues (§140.07)

that assertion of duly granted patent is made Law recognizes presumption, overcome only by affirmative evidence of bad faith,

fringement not survive litigation; judgment finding antitrust violation in present case cannot be upheld on "sham" litigation grounds, since infringement defendant failed to present substantial evidence that litigation was objectively meritless and brought in bad must have right to enforcement of duly granted patent, unencumbered by punitive consequences should patent's validity or inlawsuit is objectively meritless, and that suit conceals attempt to interfere directly with competitor's business relationships, patentee good faith, since, absent showing that faith.

## 12. Patent misuse - Improper procurement and enforcement (§140.03)

not subject to collateral attack as new ground of "misuse," in that it is not patent misuse to bring suit to enforce patent rights not fraudulently obtained, and since verdicts against goods known not to be infringing, is misuse or that they were not "reasonably within the patent grant," since conduct to referred, namely attempt to enforce patents thus are not supported by evidence or correct use must be reversed, since there was no evidence that infringement plaintiff's competitive activities were either per se patent which jury instruction on misuse generally Judgment on verdicts finding patent mislegal theory.

## 13. Patent misuse - Federal antitrust issues (§140.07)

conclusion that patentee maintained its mo-nopoly position by exclusionary conduct: al-though patentee contended at trial that it modified gun in order to make it easter to replacement needle makers, to make doctors finding that patentee enjoyed monopoly power in market for replacement needles, and its cation were to raise cost of entry to potential apprehensive about using competitors' nec-Judgment on jury verdict finding antitrust violation based on patentee's modification of placement needles is affirmed, since evidence was sufficient to support jury's specific load and unload, there was substantial evidence that patentee's real reasons for modifiand to preclude use of "copycat" biopsy gun to prevent use of competing re-

#### Particular patents - General and me-- Biopsy guns chanical

4,944,308, Akerfeldt, tissue sampling de-

vice, judgment of invalidity reversed; judgment of non-infringement affirmed.

Re. 34,056 (of 4,699,154), Lindgren and Akerfeldt, tissue sampling device, judgment

of invalidity affirmed; judgment of non-infringement vacated.

C.R. Bard Inc. v. M3 Systems Inc.

Appeal from the U.S. District Court for the Northern District of Illinois, Bucklo, J. Action by C.R. Bard Inc. against M3 Systems Inc. for patent infringement, in issues, plaintist appeals. Affirmed in part, reversed in part, vacated in part, and violation of antitrust laws, and patent miswhich defendant asserted claims for fraud use. From judgment for defendant on all remanded.

concerning the attempt to monopolize issue is reversed in part by Judge Newman's opinion (Parts VI.A-B), which Chief Judge Mayer and Judge Bryson join, and affirmed in part by Judge Bryson's opinion (Part II), except for Part I.E (on-sale issue) and Part VI.C (attempt to monopolize). Judge Bryson does not join Parts I.A-D of Judge Newman's opinion. The district court's judgment which Chief Judge Meyer joins. Judge Newman dissents with respect to the on-sale bar Opinion for the court by Judge Newman concerning the on-sale bar is affirmed in separate opinions by Chief Judge Mayer and Judge Bryson. The district court's judgment and attempt to monopolize issues.

Related decisions: 34 USPQ2d 1474; 32

M. Stahl, Walter G. Hanchuk, Warren H. Rotert, and Steven F. Meyer, of Morgan & Finnegan, New York, N.Y., for plainohn F. Sweeney, Harry C. Marcus, Desiree tiff-appellant.

Sigale, and Jovan N. Jovanovic, of Dick & Harris, Chicago, Ill.; Paul E. Slater and Greg Shinall, of Sperling, Slater & Spitz, Richard D. Harris, Max Shaftal, Jordan A. Chicago, for defendant-appellee.

Before Mayer, chief judge, and Newman and Bryson, circuit judges.

#### Newman, J.

In suit are United States Patent No. 4.944.308 issued July 31, 1990 (the '308 patent) and United States Reissue Patent No. RE 34.056 issued September 8, 1992 (the '056 patent), both entitled "Tissue Sampling Device." These patents originated with the work of Dr. Per Gunner Lindgren, a physician in Sweden, and are now owned by appellant C.R. Bard, Inc.

The patented inventions are devices for samples of body tissue for biopsy taking

inserted biopsy needles. They are said to be particularly advantageous for sampling vice or "gun" mechanically injects a biopsy These devices are described as improving the small or movable lesions and fibrous or firm tissues, because the rapidly and firmly fired needles can penetrate even fibrotic lesions before the lesions can slip aside. The patentspeed, accuracy, ease, and patient comfort of tissue sampling, compared with manually purposes, wherein a biopsy needle firing deneedle assembly into the core body tissue. ed guns and needles have achieved commercial success.

Bard sued. M3 Systems in August 1993 in the United States District Court for the Northern District of Illinois, asserting that defenses that the patents are invalid on severtion, and patent misuse. The jury rendered finding the '056 patent invalid and not infringed on each of the grounds of anticipa-M3's ProMag biopsy gun and ACN/SACN biopsy needle assemblies infringed the '308 and '056 patents, respectively. M3 raised the al grounds and are not infringed, and also charged Bard with fraud, antitrust law violation, obviousness, violation of a section 102(b) bar, incorrect naming of inventors, special verdicts in favor of M3 on every issue, and non-compliance with reissue requirements; and finding the '308 patent invalid and not infringed on grounds of anticipation. tion. The jury also found that Bard perpetrated fraud in the Patent and Trademark Office (PTO) in obtaining both patents, that Bard misused both patents, and that Bard violated antitrust law, awarding \$1.5 million in antitrust damages, trebled by the district obviousness, and insufficient written descripcourt.

versed and the judgment of noninfringement is affirmed. The judgments of misuse and raud are reversed. The judgment of antitrust violation on the ground of attempt to The district court denied all post-trial motions. This appeal followed. This court afpatent and vacates the judgment of noninfringement of the '056 patent. The judgmonopolize is affirmed, but the antitrust firms the judgment of invalidity of the '056 ment of invalidity of the '308 patent is redamages award is vacated, for redetermination upon remand.

C.R. Bard, Inc. v. M3 Sys., Inc., No. 93-CV-4788 (N.D. III. Oct. 2 & Dec. 20, 1995) (orders).

by made by the Baxter Travenol Company, bly made by the Baxter Travenol Company, having the brand name "Tru-Cut." The Tru-Cut is a double needle consisting of a hollow outer needle called the cannula and an inner needle called the stylet. The stylet is solid except for a recess near its point. In the manual procedure for which the Tru-Cut the body tissue, whereupon the tissue to be sampled would flow into the recess in the stylet and cut and trap the tissue sample in was designed, the physician would first extend the stylet and insert the assembly into stylet; the physician would then push the cannula into the body tissue to surround the with Jan Allard, an engineer, designed and constructed the first of several successively improved mechanical biopsy guns. This "first generation" gun was designed to fire a commercially available biopsy needle assem-In 1981 Dr. Lindgren, working in Sweden recess.

without assistance by providing a sampling device that can be operated with one hand while the other hand holds the ultrasound apdure in order to improve the speed and accumanipulate the ultrasound equipment that is usually required to view the interior of the Lindgren sought to mechanize this proceracy of insertion, to reduce human error, and to permit a physician to perform the biopsy body and direct insertion of the needles. Dr. This procedure required the physician to use both hands to manipulate the needles, while a second physician would hold and

tissue and a trigger mechanism releases the stylet and cannula in rapid sequence. The sioning or energizing in the patent documents. Cocking is performed by hand or with a specially designed tool described as a miniature crowbar. After the drivers are cocked, the stylet and cannula are placed in the appropriate slots and the gun housing is closed. The gun is then aimed at the target needle assembly. To use this gun the physician must first "cock" each of the spring-loaded drivers. This cocking action, as it was often called at trial, is referred to as pre-ten-The first generation gun is a box-like structure fitted with two spring-loaded drivers associated with slots that are configured to hold the cannula and stylet of the Tru-Cut needles are then manually retrieved. paratus.

ent application on the first generation gun under the Patent Cooperation Treaty (PCT). a small Swedish company associated with Dr. Lindgren and Mr. Allard filed a pat-The invention was assigned to Radiplast AB,

Dr. Lindgren. The PCT application was filed on March 31, 1982 and was published on October 13, 1983. It is prior art to the United States patents in suit.

The Second Generation — The '056 Reissue

moving the needles rearward. A trigger in rapid sequence, into the tissue to be by external action after the needles are placed in the gun and the housing is closed. In this mechanism rods are attached to each of the spring-loaded drivers, extend out the back of the gun, and culminate in a ring or handle. By pulling the ring or handle the operator simultaneously cocks both drivers, mechanism then fires the stylet and cannula, needles, a step described as awkward and inefficient. In 1985 Dr. Lindgren, working with Dan Akerfeldt, an engineer, designed a mechanism whereby the drivers are cocked to improve the gun so that it would not be necessary for the physician to cock the two drivers manually before installing the biopsy Starting in 1984, Dr. Lindgren undertook

1154 patent) was issued on October 13, 1987, with claims to the combination of the second the second generation gun, for their struc-ture was such that they could not be moved rearward as well as propelled forward. New needles were designed with a modified hub and flange structure and a slit in the stylet flange to facilitate placement in the gun Corresponding structural changes were gun to accommodate the changes in the needles. Radiplast, as assign-ee, filed a patent application in Sweden on February 19, 1986. The United States appli-Dr. Lindgren as the inventor. Corresponding United States Patent No. 4,699,154 (the generation gun and the new needle assembly. The '154 patent did not claim the needle cation was filed on July 30, 1986, naming he Tru-Cut needles were not usable with assembly alone. made to the

to the needle assembly alone. This reissue patent issued on September 8, 1992, and is the '056 patent in suit. During the reissue ioned the PTO to correct the inventorship to nclude Dan Akerseldt. In addition, Bard described to the PTO various activities of in the United States, as shall be in connection with the on-sale distributor in 1987, acquired ownership of the Radiplast patents. Bard applied for reproceeding Bard and Dr. Lindgren petiissue of the '154 patent in order to add claims In 1989 Bard, having become Radiplast's Radiplast discussed

The Third Generation Gun — The '308

driver springs, he designed an external integrated, cocking mechanism, that energized the two springs sequentially, thereby requiring less force than did the simultaneous cocking mechanism of the second generation gun.
The third generation gun also provided for separate rearward movement of the needles gun easier to use, especially by inexperienced physicians. Because pulling the cocking ring required significant manual force to over-come the simultaneous resistance of both after the biopsy sample was taken, thereby facilitating removal of the tissue from the stylet. Radiplast applied for a United States patent on the third generation gun on November 14, 1988, naming Dan Akerfeldt as inventor. The patent issued in 1990 and is the Dan Akerfeldt continued to work on improving these devices. He sought to make the '308 patent in suit.

#### VALIDITY OF THE '056 REISSUE PATENT

able jurors viewing the evidence as a whole could have found the facts needed to support the verdict in light of the applicable law... Lemelson v. General Mills, Inc., 968 F.2d 1202, 1207, 23 USPQ2d 1284, 1288 (Fed. Cir. 1992). The appellant must establish that the jury's actual or inferred factual findings Applied Med. Resources Corp. v. United States Surgical Corp., 147 F.3d 1374, 1376, 47 USPQ2d 1289, 1290 (Fed. Cir. 1998), D.M.I., Inc. v. Deere & Co., 802 F.2d 421, 425, 231 USPQ2d 276, 278 (Fed. Cir. 1986). When a claim or defense can not be maininvalidity by clear and convincing evidence at trial. Carella v. Starlight Archery, 804 F.2d 135, 138, 231 USPQ 644, 646 (Fed. Cir. 1986). On review, the appellate court must "decide for ourselves whether reason-Bard charged M3 Systems with infringement of claims 9-12 and 21-23 of the '056 patent. M3 had the burden of establishing or that the found or inferred facts were not sufficient to support the conclusion, or that the law was incorrectly applied. See, e.g., were not supported by substantial evidence.

lained or defeated without a favorable findtender judgment as a matter of law. See Fed. R. Civ. P. 50; Anderson v. Liberty Lobby, Inc., 477 U.S. 242, 251-52 (1986); see genering on a material issue, and there is not substantial evidence supporting that finding, the verdict can not stand and the court must

ally Markman v. Westview Instruments, Inc., 52-F:3d 967, 975, 34 USPQ2d 1321, 1326 (Fed. Cir. 1995) (in bane). aff-4, 517 U.S., 370, 38 USPQ2d 1461 (1996). The appellate court must determine whether on the evidence of record a jury might properly have returned a verdict in the non-movant's favor when the correct legal standard is applied. If not, the movant was entitled to have the question removed from the jury and decided as a matter of law.

We apply these principles to each of the grounds on which the jury rendered verdicts direct our discussion of validity primarily to claim 21, for the claim is representative and M3 Systems' expert witnesses admitted in-fringement of claim 21 by M3's original ACN needles: of invalidity of the asserted '056 claims. We

sampling device having a housing with a forward end, a first slide mounted for 21. A biopsy needle for use with a tissue and a second slide mounted for longitudilongitudinal motion within said housing, nal motion within said housing, said biopsy needle comprising:

a hollow first needle having proximal and a second needle extending through said hollow first needle and freely slidable therewithin, said second needle having proximal and distal ends; distai ends;

including first flange means associated therewith for coupling said hollow first a first head mounted to said proximal end of said hollow first needle, said first head needle to said first slide for longitudinal motion both toward and away from said forward end of said housing; and

end of said second needle, said second ciated therewith for coupling said second head including second flange means assomotion both toward and away from said needle to said second slide for longitudina a second head mounted to said orward end of said housing.

### A. Anticipation

To meet the requirements of patentability a device must be new; that is, it must not have been previously known. Section 102(a) published anywhere, or known or used by others in the United States, before its invenrequires that the subject matter was not tion by the patentee.2 An invention that 18102. A person shall be entitled to a paint (a) the invention was known or ur in this country, or patented , printed publication in this or a

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does not meet the requirements of novelty in section 102(a) is said to be "anticipated."

When the defense of lack of novelty is

ent, and that the closest-prior art, which all agree is the Travenol Tru-Cut needle assembly, differs in material ways. M3 Systems states: that the Tru-Cut (or a publication describing the Tru-Cut) anticipated the claimed needle assembly because the '056 the arranged as in the elements of the standard device. Shearing arranged as in the patented device. Shearing v. Iolab Corp., 975 F.2d 1541, 1544445, 24 USPQ2d 1133, 1136 (Fed. Cir. 1992); Richardson v. Suzuki Motor Co., 868 F.2d 1226, ardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9. USPQ2d 1913, 1920 (Fed. Cir. 1989); Perkin-Elmer Gorp. v. Computer 1989); Perkin-Elmer Gorp. v. Computer 1989); Perkin-Elmer Gorp. v. Computer 1989; Perkin-Elmer Gorp. v. claims, correctly construed, read on the anticipated by a single prior art reference." Bard states that no reference described the new biopsy needle assembly of the '056 pated to describe the same invention, a finding of anticipation requires that the publication describe all of the elements of the claims, based on a printed publication that is assert-

appellate review, however, we apply the principles of Cybor Corp. v. FAS Techs.. Inc. 138 F.3d 1448, 1454-56, 46 USPQ2d 1169, 1172-75 (Fed. Cir. 1998) (in banc). and determine whether on the correct claim construction the jury verdict can stand. See United States Surgical Corp. v. Ethicon, Inc., 103 F.3d 1554, 1568, 41 USPQ2d 1225, 1236 (Fed. Cir.) (reviewing whether the verdure was not incorrect at the time this case was tried — for as the court observed, the question of the relative roles of judge and jury was then before the Supreme Court and does not of itself warrant a new trial. On dict reached was in accordance with correct dict reached was in accordance with correct denied, 118 S. Ct. accustomed meaning, unless it appears that the inventor intended to use them different ly. . . You may use the specification to interpret what the patentee meant by a word interpret what the patentee meant by a word or phrase in a claim. The record shows that or phrase in a claim. the court defined some terms and the parties explained their views to the jury. This proceof the claim terms that were placed in dispute, instructing the jury that "words in a claim are to be given their ordinary and You may use the specification to The district court declined to construe all claim construction), cert. denied, 118 S. 369 (1997) Tra-Cut.

1. The Term "Freely Slidable"

before the invention thereof by the applicant

for patent. ...

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"freely slidable" does not distinguish the '056 claims from the Tru-Cut needle assembly. The term "freely slidable" appears in the following claim clause: M3 Systems contends that the claim term

a second needle extending through said hollow first needle and freely slidable therewithin, ...

responds that Bard improperly seeks to insert the limitation "totally" into the definition of "freely slidable" and that, correctly construed, "freely slidable" requires only sliding freely in the forward direction. M3 sliding freely in the forward direction. states that since the Tru-Cut is freely slid-able in the forward direction, the claim reads on the prior art and is invalid for anticipa-Bard argues that the court should have construed "freely slidable" for the jury, and that needle slides freely in either direction. M3 correctly construed this term means that the

proposed interpretation is unsupported by, and indeed is contrary to, the specification. See Slimfold Mfg. Co. v. Kinkead Indus., Inc., 810 F.2d 1113, 1116, 1 USPQ2d 1563, 1566 (Fed. Cir. 1987) (claims are not interpreted "in a vacuum." but are read and understood in light of the specification of which they are a part). The jury's finding of anticipation can not be sustained if grounded on M3's interpretation of "freely slidable," or it was not disputed that the prior art M3 Systems' proposed claim construction is not correct, and could not have reasonably been adopted. The specification leaves no uncertainty that the '056 needles are freely slidable in both directions, for that is a purpose of the new '056 needle structure. M3's Tru-Cut needles can not slide in both directions.

### 2. The "Housing"

of the tissue sampling device, and that the lack of any preamble reference to an external automatic cocking mechanism invalidates M3 Systems argues that the preamble of the "056 claims refers only to the "housing" to distinguish the gun of the preamble from the prior art first generation gun. the claims by anticipation because they fail

example when patentability depends on limitations stated in the preamble, as in In restruct, 828 F.2d 751, 754, 4 USPQ2d 1071, 1073 (Fed. Cir. 1987), or when the preamble M3 Systems has incorrectly construed the claim preamble. A preamble may serve a contributes to the definition of the claimed variety of purposes, depending on its content. It may limit the scope of the claim, for

the preamble simply states the intended use or purpose of the invention, as in Loctite Corp. v. Ultraseal Ltd., 781 F.2d 861, 868, 228 USPQ 90, 94 (Fed. Cir. 1985). Such a preamble usually does not limit the scope of the claim unless the preamble provides ante-cedents for ensuing claim terms and limits the claim accordingly. In Vaupel Textilmas-chinen KG v. Meccanica Euro Italia S.P.4., 944 F.2d 870, 880, 20 USPQ2d 1045, 1053 guidance in understanding and construing invention, as in Bell Communications Research, Inc. v. Vitalink Communications Corp., 55 F.3d 615, 620, 34 USPQ2d 1816, (Fed. Cir. 1991), for example, the preamble described a "reference point" that provided 820 (Fed. Cir. 1995). In this case, however, he claim.

21 recites the portion and structure of the gun housing into which the needles fit, and provides reference points in the gun that aid in defining the needles as set forth in the body of the claim. M3 Systems is incorrect in stating that the preamble must contain details of the integrated mechanical cocking structure, for the gun structure is not part of the preamble, they can not be sustained. On the correct construction of the preamble, it contributes no basis of invalidity on the the separate claims to the needles. The question of anticipation of the '056 claims relates to the needles, not the gun. To the extent that been based on M3's incorrect construction of In the case at bar, the preamble of claim the jury verdicts of anticipation may have ground of anticipation.

# 3. The On-sale Bar and "Anticipation"

verdicts by arguing that the asserted claims are anticipated because they are subject to an on-sale bar. Although 35 U.S.C. § (02(b) ground of invalidity based on the inventor's Foot one's own invention, "anticipation" does not arise from sale of one's own invention. We discuss the on-sale issue post; however, this aspect is unrelated to the "anticipation" ver-M3 Systems defends these anticipation provides that an inventor's sales or offers of sale more than one year before the patent filing date may bar the grant of a valid patent,' the on-sale bar is an independent delay in entering into the patent system. Although the on-sale bar can arise

dicts, was not part of the jury instruction on that issue, and is not based on correct law.

#### Conclusion

prior art or prior knowledge or use by others that constitutes substantial evidence of anticipation of the needles claimed in the '056 patent. M3's witnesses conceded that the '056 needles differ from the Tru-Cut in the well as in the additional limitation in claims 10 and 12 of a slit in the stylet head flange. It is not disputed that the Tru-Cut needle assembly lacks these elements. In view of these flange structure for coupling to the gun for movement both toward and away from the housing, a structure that limits all claims, as admitted differences between the '056 neeof anticipation are unsupported by substantial evidence. The judgment of invalidity dles and the prior art, differences unambiguously stated in the '056 claims, the verdicts [1] In sum, M3 Systems directs on this ground is reversed.

### B. Obviousness

tion of law based on underlying facts. See Graham v. John Deere Co., 383 U.S. 1, 17-18, 148 USPQ 459, 467 (1966); Panduit Corp v. Dennison M/g. Co., 810 F.2d-1561, 1566-68, 1 USPQ2d 1593, 1595-97 (Fed Cir. 1987). The relevant facts relate to (1) the failure of others, or copying. Graham, 383 U.S. at 17, 148 USPQ at 467; see Continental Can Co. USA, Inc. v. Monsanto Co., 948 F.2d 1264, 1270, 20 USPQ2d 1746, 1750-51 (Fed. Cir., 1991). Invalidity based on obviousness is a questhe scope and content of the prior art, (2) the level of ordinary skill in the field of the invention, (3) the differences between the any objective evidence of nonobviousness such as long felt need, commercial success, claimed invention and the prior art, and (4)

The ultimate determination of obviousness vel non is a legal conclusion. See Ashland Oil, Inc. v. Delta Resins & Refractories, Inc., 776 F.2d 281, 297 n.24, 227 USPQ 657, 667 n.24 (Fed. Cir. 1985). When a patent describes a new mechanical device that can conclusion of obviousness requires that there berger Druckmaschinen AG v. Hanischo Commercial Prods., Inc., 21 F.3d 1068, 1072, 20 USPQ2d 1377, 1379 (Fed. Cir. be some suggestion, motivation, or teaching be viewed as a new combination or arrange ment of mechanical components, the legal in the prior art whereby the person of ordinary skill would have selected the components that the inventor selected and used them to make the new device. See Heidel-

C.R. Bard Inc. v. M3 Systems Inc.

<sup>&#</sup>x27;§102 A person shall be entitled to a patent

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public uses on on asle in this country, more than one year prior to the date of the application for patent in the United States,...

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are consideration of the presumption of validity and the requirement that obviousness be proved by clear and convincing evidence; factual inferences are drawn and credibility determinations are accepted in favor of the verdict winner. See Richardson-Vicks Inc. v. Upjohn (Co., 122 F.3d 1476, 1480, 44 USPQ 181, 1183-84 (Fed. Cir. 1997); Structural Rubber Prod. Co. v. Park Rubber Co., 749 F.2d 707, 718-19, 223 USPQ 1264, 1273 (Fed. Cir. 1984). provide a suggestion or motivation to make such a combination."); Northern Telecom, Inc. v. Datapoint Corp., 908 F.2d 931, 934, 15 USPQ2d 1321, 1323 (Fed. Cir., 1990) (it is insufficient that prior art shows similar g components, unless it also contains some s teaching, suggestion, or incentive for arriving at the claimed structure). We review a ings can support the verdict, with appropri-(1993) ("When the patented invention is verdict of obviousness to determine whether substantial evidence supports the factual findings predicate to the legal conclusion of obviousness and whether such findmade by combining known components to achieve a new system, the prior art must

Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1143, 227 USPQ 543, 551 (Fed. Cir. 1985) (it is insufficient to select from or motivation in the prior art to do so); the prior art the separate components of the vance Offset Plate, Inc., 755 F.2d 1549, 1556, 225 USPQ 26, 31 (Fed. Cir. 1985) (the prior art must suggest to one of ordinary skill in the art the desirability of the claimed reverse movement of the needles. No other prior art was presented. The invention that come from the prior art. See, e.g., Uniroyal, Inc. v. Rudkin-Wiley Corp., 837 F.2d 1044, 1051-52, 5 USPQ2d 1434, 1438 (Fed. Cir. obvious adaptations to accommodate the new gun design and to provide the desired obvious; that suggestion or teaching must 1988) (it is impermissible to reconstruct the claimed invention from selected pieces of inventor's combination, using the blueprint supplied by the inventor); Fromsom v. Ad-M3 Systems argued at trial that the patented needle assembly would have been obvious in light of the Tru-Cut needle assembly, was made, however, does not make itself prior art absent some suggestion, teaching and that the only differences arose from combination

the verdicts of invalidity on that ground can sembly should be made with the structure sent this essential evidentiary component of obviousness holding, as a matter of law [2] No prior art provided a teaching or suggestion or motivation that a needle asshown and claimed in the '056 patent. Ab-

not stand. Consequently, the judgment of invalidity based on obviousness is reversed.

### C. Inventorship

fact, in this case for substantial evidence. See 106 F.3d 976, 980, 41 USPQ2d 1782, 1786 (Fed. Cir.); cert. denied, 117 S. Ct. 2459 (1997). The application of law to the found or admitted facts is reviewed on appeal with-out deference to the trier of fact. See Ethicon. Inc. v. United States Surgical Corp., 135 F.3d. 1456, 1460, 45 USPQ2d. 1545, 1547 (Fed. Cir. 1998); Sewall v. Walters, 21 F.3d.411, 415, 30 USPQ2d 1356, 1358 (Fed. lidity of the asserted '056 claims on the ground of incorrect inventorship. Inventorship is a question of law, applied to relevant facts. Findings of relevant fact are reviewed The jury rendered special verdicts of invaon the standard appropriate to the trier of Hess v. Advanced Cardiovascular Sys., Inc. Cir. 1994).

(1868); Hers, 106 F.3d at 980-81, 41 (1868); Hers, 106 F.3d at 980-81, 41 (1862); Hers, 105 F.3d at 980-81, 41 (1862); Proproof Glass Corp. v. Libbey-Owers Ford Co., 785 F.2d 613, 624, 225 USPQ 634, 641 (Fed. Cir. 1985), "an inventor may use the services, ideas, and aid of others in the process of perfecting his invention without losing his right to a patent."

An assertion of incorrect inventorship by another without becoming an "inventor" by operation of law Id.; Agawam Co. v. Jordan, 74 U.S. (7 Wall.) 583, 602-04 son or persons who conceived the patented invention. Collar Co. v. Van Dusen, 90 U.S. (23 Wall.) 530, 563-64 (1874); Burroughs services in perfecting the invention conceived 1223, 1227-18, 32 USPQ2d 1915, 1919 (Fed. Cir. 1994) ("Conception is the touchstone of inventorship.") Thus facts relevant The "inventor," in patent law, is the per-Wellcome Co. v. Barr Lab., Inc., 40 F.3d to inventorship are those showing the conception of the invention, for others may provide

difficulty of determining legal inventorship has been recognized, see Jamesbury Corp. Vinited States, 518 F.2d 1384, 1396, 183 USPQ 484, 489 (Ct. Cl. 1975) (inventorship can patent law) and, to avoid inadvertent invalidity, 35 U.S.C. §256 permits correction of the designated inventorship of a patmust be based on facts proved by clear and convincing, corroborated evidence. Hess, 106 F.3d at 980, 41 USPQ2d at 1786. The ent when an error was made without decepis one of the most difficult issues in Ameritive intent:

§256 Whenever through error a person is named in an issued patent as the inventor,

or through error an inventor is not named without any deceptive intention on his in an issued patent and such error arose part, the Commissioner may, on application of all the parties and assignees, with proof of the facts and such other requirements as may be imposed, issue a certificate correcting such error.

See Stark v. Advanced Magnetics. Inc., 119 F.3d 1551, 1556, 43 USPQ2d 1321, 1325 (Fed. Cir. 1997) (error in inventorship may be corrected at any time if no deceptive inThe '154 patent as filed in the United ing Dr. Lindgren filed a petition in the PTO to add Dan Akerfeldt as a joint inventor. Lindgren and Akerfeldt each filed declaraand declaring that the omission in naming Akerfeldt was due to differences between States had named Dr. Lindgren as sole intions explaining their roles in the invention United States and Swedish patent law, and ventor. In the course of the reissue proceedwas not done with intent to deceive.

M3 Systems challenged the joint inventor-ship of Lindgren and Akerfeldt, and also stated that neither one was an inventor of the President of Hart Enterprises, the company '056 patent's needles, but that Alan Taylor, Radiplast retained to manufacture its new needles in the United States, was the sole pear at the trial, he stated in a deposition that he was not an inventor, but that he suggested the slot in the stylet flange to prevent rotation of the needle. He said he sketched his design for Mr. Engström, alinventor. Aithough Mr. Taylor did not apcooperate with a guide pin in the gun and though such a sketch was not produced. M3 states that Mr. Taylor gave written notice of his claim in 1990, before the reissue application was filed, but the record citations in M3's brief do not direct us to such notice.

It has long been the rule that one who asserts "inventor" status must provide clear and convincing evidence of supporting facts, including corroborating evidence. See Woodland Trust v. Flowertree Nursery, Inc., 148 F.3d 1368, 1371, 47 USPQ2d 1363, 1366 (Fed. Cir. 1998) (illustrating the hisin the torical distrust of uncorroborated oral testiof reason" analysis of corroborating evidence in Price v. Symsyk, 988 E.2d 1187, 1194, 26 USPQ2d 1031, 1036 (Fed. Cir. 1993)). At the trial Mr. Engström disputed Mr. Taylor's statements, and the earliest depiction introduced of the flange with a slot was a mony of prior invention and citing the Swedish document.

Alternatively. M3 Systems points to the design patents that were filed in the name of

showed specific huo designs not shown in the utility patent. Whether Akerfeldt was the Akerfeldt alone, as establishing that Dr. Lindgren was not a joint inventor of the needles with Akerfeldt. Bard replies, and there is no dispute, that the design patents sole inventor of specific hub designs does not negate his joint inventorship of the needles of the '056 patent, which are depicted and indeed there were error in inventorship, such errors are correctable and do not invalidate the patent absent deceptive intent. To invalidate a patent based on incorrect inventorship it must be shown not only that the inventorship was incorrect, but that correction is claimed broadly. Bard also stresses that if unavailable under section 256:

\$256 [12] The error of omitting inventors or naming persons who are not inventors shall not invalidate the patent in which such error occurred if it can be corrected as provided in this section. . . .

USPQ2d at 1552; Hers, 106 F.3d at 980, 41 USPQ2d at 1785-86. Since such evidence was absent, the judgment of invalidity based can be inferred from the omission of Taylor as an inventor, precedent requires that one establish that right by clear and convincing evidence. Ethicon, 135 F.3d at 1465-66, 45 on incorrect inventorship can not stand, and who claims a share of inventorship must Although M3 contends that deceptive is reversed.

## D. Violation of Reissue Requirements

were not met. M3 Systems explains in its brief that the jury found that "any purported error in the '154 patent could not be corrected by reissue." explaining that the errors The jury also found by special verdicts that the asserted '056 claims were invalid on the ground that the reissue requirements were the error in inventorship and the error in failing to claim the needles in the original

correction of inventorship was improperly made by reissue, we have been directed to no legal or procedural error, for the prosecution [3] With respect to the argument that the history clearly shows that the error in inventorship was described in the reissue application and corrected by appropriate petition, filed and processed while the reissue application was pending. A petition to correct inventorship, 37 C.F.R. §1.324 (1991), may be filed during reissue proceedings. The error in inventorship was corrected before the reissue patent was granted, and thus the reissued patent names Lindgren and Akerfeldt as the vided ground for a reasonable jury's verdicts inventors. This procedure can not have pro48 USPQ2d

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of invalidity based on violation of reissue re-

standing scope of the invention and claiming less than that to which the inventor was enoriginal patent. See Scripps Clinic & Res. Found'n v. Genentech, Inc., 927 F.2d 1565, 1575, 18 USPQ2d 1001, 1009 (Fed. Cir. 991) (purpose of reissue statute is to avoid ously claiming less than entitled, through Wilder, 736 F.2d 1516, 1518-19, 222 USPQ reissue is to correct errors such as misunderargued was not amenable to correction by reissue was the addition of claims to the needles per se. That argument incorrectly of the reissue statute is to enable the addition of claims to subject matter not claimed in the intent to deceive); In re 369, 371-72 (Fed. Cir. 1984) (purpose of states the reissue law, for a primary purpose forfeiture of substantive rights due to errone-[4] The other aspect that M3 Systems without quirements. itled

matter of reissue claims satisfies \$112 requirements): In re Weiler, 790 F.2d 1576, 1581, 229 USPQ 673, 676-77 (Fed. Cir. 1986) ("intent to claim" is shorthand for a 322, 216 USPQ 1045, 1048 (Fed. Cir. 983) (lack of "intent to claim" is only one of such intent is not an error correctable by reissue. That too is an incorrect statement of means of measuring whether required error is present); In re Hounsfield, 699 F.2d 1320, the scope of an invention at the time of the ter, is a remediable error. See In re Amos, 953 F.2d 613, 619, 21 USPQ2d 1271, 1276 [Fed. Cir. 1991] (reissue application not subject to rejection for failure to demon-M3 Systems states that since the needles were not claimed originally they were not intended" to be claimed, and that absence the law. An inventor's failure to appreciate original patent grant, and thus an initial intent not to claim the omitted subject matstrate initial intent to claim, when subject actor to be considered).

M3 Systems also argues that the error in failing to claim the needles should have been corrected sooner. The reissue statute sets a reissue application. This requirement was met. See 35 U.S.C. §251; In re Graff, 111 F.3d 874, 877, 42 USPQ2d 1471, 1473-74 a patentee act earlier rather than later durtwo-year time limit for filing a broadening filed within two years); see also 37 C.F.R. ng the two-year window established by Fed. Cir. 1997) (broadened claims must be §1.175 (1991). There is no requirement that

dure was violated. The verdicts of invalidity M3 Systems has stated no basis in fact or law for its assertion that any reissue proce-

This section is the dissenting opinion of Judge Newman. The court affirms the judgment of invalidity for violation of the on-sale bar, in separate opinions of Chief Judge Mayer and Judge Bryson.

on this ground are unsupported in law, and judgment based thereon is reversed.

## E. The On-Sale Issue '

filing date of the '154 patent application in the United States. See 35 U.S.C. §102(b), supra note 3: Since that filing date was July 30, 1986, the critical date for bar purposes is claims were invalid on the ground that the new needle assembly had been "patented or published or in public use or on sale" in the Jnited States more than one year before the The jury also found that the asserted '056 July 30, 1985.

these prior art devices were also a bar to the 056 claims under section. 102(b) is not issue of on sale. While M3 Systems also argued that there was a bar based on publireferred to relates to the first generation gun tinguish among the statutory grounds of pat-ented or published or in public use or on sale, cation and public use, the only evidence edged prior art and are not claimed in the patents in suit. M3's argument at trial that Although the special verdicts did not disthe major focus at trial and on appeal is the and the Tru-Cut needles, which are acknowl-

moting the first generation gun with the Tru-Cut needles, pursuing arrangements for sign was developed after the critical date, the pressed on appeal.

The '154 and '056 patents are directed to the second generation gun and new needles. Before the critical date, indeed before the development of the second generation gun and new needles had been completed, Radiplast was engaged in a variety of activities directed to the United States market. These activities included demonstrating and proclinical trials for the second generation gun and new needles through collaboration with a potential United States distributor, applying for FDA approval, arranging for manufacture of the needles in the United States, goals. Although Radiplast's final needle deissue at trial was the effect of these prior and related activities directed to commercial activities under the law of section 102(b).

Federal Circuit precedent on the on-sale totality of the circumstances in light of the various policies that underlie the bar. Precedent explains that "while a wide variety of bar requires consideration by the court of the factors may influence the on sale determina-

depends on the totality of the circumstances." Ferge AG v. Quipp. Inc., 45 F.3d 1562, 1566, 33 USPQ2d 1512, 1514 (Fed. Cir. 1995); see Enviroitech Gorp. v. Westerh Eng.g. Inc., 904 F.2d 1571, 1574, 15 USPQ2d 1230, 1232 (Fed. Cir. 1990). tion, no single one controls the application of section 102(b), for the ultimate conclusion

Western Marine Elecs. Inc. v. Furuno Elec. Co., 764 F.2d 840, 844, 226 USPQ 334, 337 (Fed. Cir. 1985); see Petrolite Corp. v. Baker Hughes, Inc., 96 F.3d 1423, 1425, 40 USPQ2d 1201, 1203 (Fed. Cir. 1996) ("This court has emphasized that the totality of the the commercial activity against the particular policy considerations that apply to the situation, giving effect to the principle that "the policies or purposes underlying the on sale bar, in effect, define it." RCA Corp. v. Data General Corp., 887 F.2d 1056, 1062, 12 USPQ2d 1449, 1454 (Fed. Cir. 1989). Although a few cases have recognized the advantages of a bright line rule that would be applicable in all cases, that is, a defining the bar will accrue, generally the court has undertaken to weigh the particular facts of mining whether a particular event creates an on-sale or public use bar." (quoting U.S. Environmental Prods., Inc. v. Westall, 911 F.2d 713, 716, 15 USPQ2d 1898, 1901 (Fed. event whereby an inventor will know when Thus, in general, "this court has been careful circumstances must be considered in deterto avoid erecting rigid standards for 102(b). Cir. 1990)).

the totality of the circumstances standard as a matter of law): KeyStone Retaining Wall Sys. Inc. v. Westrock. Inc., 997 F.2d 1444, 14451, 27 USPQ2d 1297, 1303 (Fed. Cir. 1993) (explaining relevant factual inquiries): Baker Oil Tools, Inc. v. Geo Vann, Inc., 828 F.2d 1558, 1562-64, 4 USPQ2d 1210, 1213-14 (Fed. Cir. 1987) (discussing various The determination of whether a product was on sale in terms of section 102(b) is a question of law. See Micro Chem. Inc. v. Great Plains Chem. Co., 103 F.3d 1538, 1544, 41 USPQ2d 1238, 1243-44 (Fed. Cir. 1997) (discussing precedent and applying factors to be weighed in context of experimental testing by third persons).

to test the commercial reception of the inven-tion before deciding whether it warrants pat-enting; the policy of limiting the period during which the patentee may delay entering into the patent system for the purpose of deferring the end of the period of patent-based exclusivity; the policy favoring The various policy considerations include the policy of providing a limited but normally sufficient time (one-year) for the inventor prompt public disclosure of inventions

recognizing the practical consideration whereby the value of an invention may not be through the patent system; and the policy of known until it is publicly tested. Depending particular case, applied to the factual cirhas reached a variety of conclusions as to cedent illustrates rulings ranging from the requirement that the patented product was produced and available commercially before the on-sale bar started to accrue, to rulings on the dominant policy considerations in the cumstances of that case, the Federal Circuit that the bar was triggered before the invenwhen the on-sale bar arose. The court's pretion had been completed.

July 30, 1985, three sets of events were explored at trial. The facts are not in dispute; Before the critical date for the '056 patent, the question is whether, as a matter of law, the on-sale bar arose in these circumstances:

## 1. The Clinical Trials

The clinical trials were arranged by American Pharmaseal, Radiplast's potential distributor in the United States, and were conducted in August and September 1985 (after the critical date) using the second 1985 Thornas Engström of Radiplast had quoted to Pharmaseal the price for 12 guns and 500 needles for use in the trials. Pharmaseal later that spring requested 10 guns and invoice in June 1985. Mr. Engström testined that this payment was to defray some of and was so understood. It was not disputed generation guns and new needles. In January 250 needles, for which Radiplast sent an Radiplast's costs in providing these devices, that the transaction produced no profit for Radiplast.

between collaborators, not a commercial sale the 10 guns and 250 needles to Pharmaseul, pointing out that a standard sales invoice was used. Bard replies that this was a transaction Dr. Lindgren testified that he visited the four United States hospitals that were testing the use and to see how it worked in different tissues, operated by different doctors. Bard all but one were returned by the hospitals after the clinical trials, and unused needles M3 Systems asserts that Radiplast sold and not a sale for commercial distribution. device (after the critical date), to explain its stresses that the devices were not sold, that were destroyed.

Generally cost defrayal arrangements be-tween collaborators are not deemed to be substantially for test purposes. See In re Mahurkar, 71 F.3d 1573, 1577, 37 USPQ2d 1138, 1142 (Fed. Cir. 1995) (actual sale of invalidating sales, nor are payments for use two prototype catheters "did not place the

public to believe that the dévice was freely available"); Ethicon, Inc. v. United States Surgical Corp., 762 F. Supp. 480, 506-07, 19 USPQ2d 1721, 1740 (D. Conn. 1991) (clinical tests by surgeon not a public use under \$102(b)); aff d, 765 F.2d 1062 (Fed. Cir. 1992) (Table); Baker Oil Tools, 828 F.2d at 1564, 4 USPQ2d at 1214 (discussing factors in deciding whether the purpose of testing sions to the PTO during the reissue proceeding Radiplast characterized the transaction concerning the 10 guns and 250 needles as was primarily experimental). In its submisinvention in the public domain or lead the for experimental purposes.

this transaction was to make the devices available to the four selected hospitals for a with Pharmaseal for payment or defrayal of the cost of providing the devices was not a sale or offer of sale as contemplated by section 102(b). It contravenes none of the policies underlying the on sale bar for Radiplast to have recouped these costs. Upon considering the totality of the circumstances. based on this transaction between Radiplast It is not disputed that the sole purpose of limited test period. Radiplast's arrangement conclude that an on-sale bar did not arise and Pharmaseal in connection with the clinical trials.

## 2. The Bulk Price Quotation

new needles were still being modified, and the record shows that design changes were made well after January 1985. Mr. Engtor, in the event that Pharmaseal accepted "This is to give you an indication of the price levels. We nave to meet and discuss more in detail all things related with the marketing of our biopsy instrument in US." It was not disputed that the quotation was for modified nec-Pharmaseal prices for various bulk quanti-ties of up to 50.000 needles. At that time the that role (it did not). The bulk price quotadles, and that both parties understood that quoted to ström of Radiplast testified that the quotation was information for a potential distributhe modified needles were not yet available. tions were in a telex that stated, In January 1985 Radiplast

was an on-sale event. M3 stresses that the price quoted for bulk quantities included a generation device had been shown to operate that he wished to commercialize in the Unit-M3 Systems argues that since the first or its intended purpose using Tru-Cut necdles, the inventor had already convinced himself that he had a satisfactory product ed States, and thus that the bulk price quotation, even if for needles not yet developed,

profit for Radiplast, unlike the price for the clinical trial quantities.

ed to be on sale was operable"); Seal-Flex Inc. v. Athletic Track & Court Constr., 98 F.3d 1318, 1322, 40 USPQ2d 1450, 1452 (Fed. Cir. 1996) (invention not completed if on-sale bar does not accrue based on custom-er contacts made while the product is still being developed or tested. See KeyStone, 997 F.2d at 1451, 27 USPQ2d at 1303 (on-sale bar "requires that the device assertcontacts are made. Although exceptions have arisen on particular facts, normally the it required testing under conditions of actual joint research not an on-sale bar); Shatter-proof Glass, 758 F.2d at 622, 225 USPQ at 639 ("clear weight of authority is that a bare to determine the reception of his invention in the marketplace before entering into the patent system, while the one year limit prevents undue lengthening of the period of exclusivity. The policy is served when cognizance is offer to sell does not ipso facto satisfy the 'on sale' bar"). A primary policy served by the taken of whether the invention is ready for commercial use at the time that customer Quotation of a sales price to a potential distributor of a product that is not available for sale and distribution does not of itself establish an on-sale bar. See Continental Can, 948 F.2d at 1270, 20 USPQ2d at 1750 price terms set between collaborators in on-sale bar is to provide time for an inventor

the time of this price quotation, the potential but not established distributor relationship seems clear that neither Radiplast nor Pharcal collaboration, and the non-existence of a maseal expected that this bulk price quotation would be followed by the placement of an order. To satisfy the on-sale requirement of section 102(b) there must be more than an when there is no reasonable contemplation that the quotation will be followed by purgeneration gun and proposed new needles at completed final product, negate the accrual of an on-sale bar from this price quotation. It informational exchange of price information, chase and sale as a commercial transaction. In this case, the circumstances of the incomplete stage of development of the second underlying this quotation, the planned clini-

I conclude that the verdicts of invalidity based on the on-sale bar can not be supported by this bulk price quotation.

# 3. The Correspondence with Dr. Phelps

The third event raised by M3 Systems of Radiplast responded to a letter written in September 1984 by Dr. Phelps, a physician occurred in November 1984. Mr. Engström

marketing a second generation device and new needles in the United States in early 1985, and that if Dr. Phelps did not wish to wait until United States distribution was arranged he could order directly from Swein Alabama, who had seen a demonstration and brochure for the first generation device filled, and that he knew nothing about the difference between "generations." Mr. Engand wrote to Sweden for information. Engström wrote back that he hoped to start Dr. Phelps testified that he expected that had he sent an order it would have been den; the letter quoted prices for a gun and needles. No further correspondence ensued. ström testified that neither the new needles nor the completed second generation gun was available when he answered Dr. Phelps.

An offer of sale originating in a foreign country, directed to a consumer in the United States, can establish an on-sale bar as to what was offered. In re Caveney, 761 F.2d 671; 676-77, 226 USPQ 1, 4 (Fed. Cir. led to Dr. Phelps' inquiry were of the first generation device, which used Tru-Cut needles. Although the details of Radiplast's needles. C. King Instrument Corp. v. Otari Corp., 767 F.2d 853, 860, 226 USPQ 402, 407 (Fed. Cir. 1985) (finding it significant 1985). The demonstration and brochure that placed, could not have been filled at that product changes were not explained to Dr. Phelps it was undisputed that an order, if time with the second generation gun and that purchaser could discern that it was the ق later-patented invention being offered

At the time of Mr. Engström's letter the second generation device and needles were in Phelps was not told the details of these developments, this correspondence did not raise As held in Robotic Vision Sys., Inc. v. View Eng.g., Inc., 112 F.3d 1163, 1167-68, 42 USPQ2d 1619, 1623 (Fed. Cir. 1997), "subsequent completion of an invention after the critical date does not relate back to the date of an earlier alleged offer of sale." See also prototype and sketch of proposed configuration); Shatterproof Glass, 758 F.2d at 622, 225 USPQ at 639 (not an on-sale bar to an early development stage. Although Dr. an on-sale bar to a product not yet developed. USPQ2d at 1243 (no on-sale bar when invention not completed at time of offer, only cf. Pfaff v. Wells Elecs., Inc., 124 F. 3d 1429, 43 USPQ2d 1928 (Fed. Cir. 1997), cert. granted, 118 S. Ct. 1183 (1998) (No. 97-1130) (although invention not reduced to Micro Chem., 103 F.3d at 1544-45, 41 had been made, the firm purchase order and solicit orders before invention completed) practice because no physical embodiment

delivery date accrued the on-sale bar) (citing UMC Elecs. Co. v. United States, \$16, F.2d 647, 2 USPQ2d 1465 (Fed. Cir. 1987)). On the totality of the circumstances, considering the relevant policies and the undisputed tion device, stating the price for the second generation device and needles before they were fully developed and before they were available, did not trigger the on-sale bar. Phelps, written in response to an inquiry facts. I conclude that this letter to Dr. about the first generation device, which resulted from a brochure on the first genera-

Upon de novo review of the totality of the circumstances, with due consideration to the applicable policies, the undisputed facts, and drawing factual inferences in favor of the verdicts, I conclude that the verdicts of invalidity based on a section 102(b) bar are incorrect; I would reverse the judgment on that ground.

### INFRINGEMENT OF THE **'056 PATENT**

In view of the majority's affirmance of the judgment of invalidity, we do not reach the issue of infringement of the '056 patent. That judgment is vacated.

## VALIDITY OF THE '308 PATENT

The '308 patent is directed to the third generation gun. The jury found the asserted claims of the '308 patent not infringed, and invalid or unenforceable on the grounds of anticipation, obviousness, and insufficient

Inventors and those who commercialize inventions should reasonably know when the on-sale har starts to accrue, instead of awaiting itigation-borne post hoc judicial evaluations of the totality of the circumstances, varying with the nature of the invention, the nature of the custom-'The three different views in the three opinions of this panel on the on-sale issue point up the need for a more certain law than today exists. er contact, and the judicial weight given to the conflicting policy interests.

I favor, as simple and fair, the bright line rule that for the \$102(b) on-sale bar to accrue the invention must exist in commercial form when the offer of sale is made. This rule would implegrace period for determining the performance of the product in the marketplace. ment the dominant policy of providing a one-year

misuse, and violation of antitrust law, as supporting description, as well as for fraud, discussed in Parts V-VII, post.

Claims 15 and 16 were at issue, with emphasis added to show the claim terms whose construction is relevant to the issues of patent validity or infringement:

# 15. A tissue sampling device comprising:

sleeve end having an opening therethrough: nal axis extending between said front and rear guide sleeve ends, said front guide guide sleeve ends and defining a longitudiguide sleeve having front and rear

opening, said hollow first needle being a hollow first needle positioned within said guide sleeve and extendable from said moveable along said axis:

second needle extending through said hollow first needle and moveable along axis, said second needle having a tip needle and said opening, and said second needle further including a tissue sample which is extendable from said hollow first receiving recess;

guide sleeve for movement along said axis low first needle and mounted within said to move said hollow first needle along said a first needle head coupled to said hol-

from said hollow first needle, whereby a tissue sample can be captured within said mode to store energy, and said first spring being releasable from said energized mode propel said second needle head along second needle and mounted within said guide sleeve for movement along said axis second needle head, said first spring being said tip of said second needle is extended a second needle head coupled to said to move said second needle along said axis; a first spring disposed within said guide sleeve and operatively associated with said capable of being placed into an energized said axis towards said opening, such that

a second spring positioned within said guide sleeve and operatively associated with said first needle head, said second spring being capable of being placed into an energized mode to store energy, and said second spring being releasable from needle head along said axis towards said opening, said hollow first needle being said energized mode to propel said first extended from said opening such that said recess of said second needle is enclosed by said hollow first needle;

a first latch means selectively releasable from outside said guide sleeve for releas-

ably holding said first spring in said energized mode

releasably releasable in response to and subsequent to holding said second spring in said energized mode, said second latch means being release of said first spring; and a second latch means for

sequential energizing means operative axis towards said rear guide sleeve end to cause said second latch means to hold said second spring in said energized mode, and subsequently to move said second needle head along said axis towards said rear guide sleeve end to cause said first latch means to hold said first spring in said to move said first needle head along said energized mode.

Claim 16 is the same as claim 15 except for the last clause, which includes the selective retraction of the stylet to expose the tissue

sample:

gizing means being selectively operative to move said first needle head but not said guide sleeve end, whereby said hollow first needle is selectively retractable to expose said tissue sample receiving means in said said rear guide sleeve end to cause said first latch means to hold said first spring in said energized mode and to cause said second latch means to hold said second spring in said energized mode, said enermeans operative to ond needle head along said axis towards move said first needle head and said secsecond needle head towards said encrgizing second needle. 16. ...

## A. Support by the Written Description

tion and interpretation of the claims. See Cybor, 138 F.3d at 1454-56, 46 USPQ2d at 1172-75. "sequential energizing" and "energizing means." The district court had permitted the jury to resolve this disputed issue of claim jury to resolve this disputed issue of claim supported by the description contained in the specification." M3 Systems explains that the review to the issues relevant to the construc-The jury found claims 15 and 16 "not issue was the meaning of the claim terms construction. On this appeal we give de novo

M3 Systems states that "sequential" should be construed, and was construed by the jury, to permit no overlap of needle the specification does not describe how to obtain elimination of all overlap of needle movement during the energizing step. M3 states that since the patent shows that the second needle can start to move before the first needle has completed its movement, the description does not support the claims. M3 states, as it did at trial, that since

movement, the claims are not supported by written description and are invalid.

[5] Bard agrees that the specification shows a slight overlap in the movement of the needles, whereby the second needle starts to move just before the first needle has complet-Thus, Bard contends, correct interpretation of the claims allows for this slight overlap in rect to construe the claims contrary to the rest of the specification of which they are a part, and not contrary to it. See Slimfold.

M/g., 810 F.2d at 1116, 1 USPQ2d at 1566;

SRI Int'l v. Matsushita Elec. Corp. of Am.,

775 F.2d 1107, 1125, 227 USPQ 577, 585 (Fed. Cir. 1985). (in banc). ed its movement and the first spring latches. needle movement. Bard states that it is incorspecification, and then to hold the claims specification. Bard is of course correct; the claims are construed in accordance with the invalid because they are contrary to the

The specification illustrates the sequential some ance with this description in the specificaas barring all overlap, as urged by M3 Systems. On the correct claim construction, no term "sequential" in the claims is in accordtion; no usage or exemplification of the sequential movement requires eliminating all overlap. It is incorrect to construe the claims reasonable jury could have found that the claims are not supported by the description the jury either adopted M.3's erroneous claim puted facts of the structure described in the in the specification. It is thus apparent that construction, or incorrectly applied the law governing claim construction to the undisenergizing of the needles as having soverlap in movement of the needles. specification.

ten description is in accordance with and in support of the claims. The judgment of inva-On the correct claim construction the writlidity on this ground is reversed.

### B. Anticipation

Mining & Mig. Co. v. Johnson & Johnson Orthopaedics, Inc., 976 F.2d 1559, 1572, 24 USPQ2d 1321, 1332 (Fed. Cir. 1992) ("In order to anticipate, the [reference] must sufficiently describe the claimed invention to The jury also found claims 15 and 16 was already known to others, that is, that the "Anticipation" requires that the identical invention claimed invention is not new. See Minnesota M3 Systems argued that anticipation arose on the published PCT application describing the first generation biopsy gun, and on the device itself. It was not disputed, however, that the first generation gun lacks the intehave placed the public in possession of it.") invalid based on anticipation.

grated mechanical energizing structure dethat the PCT application does not show such scribed and claimed in the '308 patent, and

claims are correctly construed they are anticipated. M3 states that on the claim con-M3 Systems' argument was that when the struction reached by the jury in finding claims 15 and 16 unsupported by the written description, whereby the term "sequential" is defined as barring all overlap in needle movement, the structure in the specification is inconsistent with the claims and therefore derstand it, that since "energizing means" and "sequential energizing means" are in means-plus-function form, it is appropriate to disregard the structure in the specification that is inconsistent with the claim language, leaving the claimed functions with "no disclosed supporting structure." quoting from M3's brief. Thus, according to M3, these shows the function of energizing or sequenfunction is performed. Thus M3 argues that since the PCT application and the first genmust be disregarded. M3 argues, as we unclaim terms are directed only to function, and can be anticipated by any prior art that tial energizing, without limit to how that eration gun are manually sequentially energized, one spring at a time, the jury correctly found anticipation by the first generation gun and the PCT application.

stood only if one adopts so tortured a view of the law. As we have discussed, it is incorrect from the structure in the specification. M3 Systems' witnesses readily admitted that the the first generation gun and the description sonable jury could not have found the '308 Indeed, the jury verdicts can be underto construe claims contrary to the specification, and it is incorrect to construe terms in means-plus-function form as disembodied integrated mechanized gun described and claimed in the '308 patent is different from of that gun in the PCT application. On the undisputed facts and the correct law, a reaclaims anticipated thereby. The judgment of invalidity for anticipation must be reversed.

### C. Obviousness

tion gun of the '308 patent would have been the first generation gun, in combination with M3 Systems argues that the third generaobvious in view of the PCT application and the '154 patent describing the second generation gun. M3 states that the third generation is an obvious combination of elements found in the first and second generations. See discussion, Part I.B. ante, of the law of obviousness. There was no dispute as to the scope and content of this prior art, or as to the

C.R. Bard Inc. v. M3 Systems Inc.

tions. The only dispute was the ultimate question of whether the third generation gun elements in the third generation gun that were not in either the first or second generawould have been obvious from what had gone

tures of the third generation whereby the needles can be retracted separately after handling of the third generation gun. Bard also points to the other new structural feaand that there is no teaching or suggestion in the prior art to make such a combination, or of the structure having the improved ease of teach or suggest the integrated automatic sequential cocking of the third generation, mechanically the sequential cocking that tion gun was manually cocked, one spring at a time. Bard replies that the one-at-a-time cocking of the springs in the first generation, by hand or by miniature crowbar, does not of the second generation gun to accomplish was necessarily done when the first genera-M3 Systems contends that for the third ntegrated mechanical cocking mechanism generation the inventor simply changed the tissue sampling.

the relevant art, there was in the prior art an appropriate teaching, suggestion, or motivation to components in the way that tion to components in the way that twas done by the inventor. See, e.g., Uniroyal, was done by the inventor. See, e.g., Uniroyal, 837 F.2d at 1050, 5 USPQ2d at 1438; ACS Hosp. Sys., Inc. v. Montefiore Hosp., 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984). The ultimate determination of legal conclusion is drawn by the jury the verdict is reviewed, as discussed in Part I.B, to determine whether substantial evidence supports the factual findings necessary to sideration to the presumption of validity and support the legal conclusion, with due conobviousness is a legal conclusion. When this evidence of the prior art and the knowledge generally available to one of ordinary skill in The ultimate question is whether, from the the standard of proof.

tributions came from the inventor, not the prior art. See Uniroyal, 837 F.2d at 1050, 5 JSPQ2d at 1438. We have been directed to tion in the descriptions of the first and second generation guns, viewed separately or tono teaching or suggestion of this combinatems does not cite any reference suggesting the structure employed in the third generation gun, or any suggestion of mechanical sequential energizing, or indeed the other features of the third generation. Those conmechanism for sequential energizing is a marked distinction from its earlier devices, even were the concept of sequential energizing deemed to be derivable from the manual operation of the first generation. M3 Sys-[6] Bard points out that its rotating sleeve

gether. Thus the verdicts of invalidity on the ground of obviousness are without essential factual support, and can not stand.

2

### INFRINGEMENT OF THE '308 PATENT

overlap in the sequential movement of the needles during energizing. Bard contends that on the correct claim construction the infringement. However, if only one result is judgment as a matter of law is appropriate. See Strattec, 126 F.3d at 1419, 44 USPQ2d tion and correct application of the law of supportable in law and on undisputed facts, incorrect claim construction, we have reviewed the verdicts of noninfringement on the correct construction, i.e., that claims 15 and 16 do not require a total absence of verdicts of noninfringement can not stand. entitled to a new trial if a jury reasonably could have reached verdicts of infringement upon correct claim construcclaims in the written description) require an Because the special verdicts discussed in Part III. A (that there is not support for these The jury found that M3 Systems did not infringe claims 15 and 16 of the '308 patent. at 1036. Bard is

applying section 112 paragraph 6 to the energizing means of the '308 claims.

M3 Systems states that the '308 patent is sequential energizing with a slight overlap in needle movement. However, M3's per does not contain a "guide sleeve" as required by the claims, and that the M3 ProMaggins use linear tensioning whereas the '308 device M3 Systems does not dispute, and indeed emphasizes, that in its ProMag devices there respect to infringement. M3 also points out that its device is a box-type biopsy gun and performs counter-rotational tensioning, such that the structure used by M3 is not equivalent to that shown in the '308 specification, gizing was not the only disputed issue with On appeal Bard argues only the issue of sequential energizing, asserting literal in-fringement under section 112 paragraph 6 formance of the function of sequential ener-

nism. M3 argued at trial that its housing is tion the gun is housed in a two-part structure draws a distinction between box-type biopsy guns such as those made by M3 wherein the housing is merely a container for the device. and guns embodying a mechanism wherein the guide sleeve and a tensioning sleeve interact and serve as part of the cocking mechaindependent, whereas in the '308 specifica-

the outer part is the tensioning sleeve and totales about the inner part. These sleeves bear cam surfaces and slots that interact serve as part of the cocking mechanism. M3 states that its gun has neither a guide sleeve nor a tensioning sleeve, and that its housing is merely the container for the device, and is wherein the inner part is the guide sleeve and with the flanges on the needle heads and thus unconnected with the cocking mechanism.

a tensioning sleeve, see D.M.I., Inc. v. Deere & Co., 755 F.2d 1570, 1574, 225 USPQ 236, 239 (Fed. Cir. 1985) (improper to import lacking the limitation), the guide sleeve is described in the specification as "the inner sleeve perform a guiding function for the cocking mechanism. Bard does not assert that such a structure is found in the M3 Although the claims in suit do not require limitation from one claim into another claim sleeve or guide sleeve." The specification shows and the claims require that the guide guns. Nor does Bard raise on this appeal any issue of equivalency under the doctrine of equivalents.

ing means Bard was required to establish, by a preponderance of evidence, that M3 Systems' device embodies the structure described in the '308 specification or an equivalent thereof. 35 U.S.C. §112 [6, Valmont Indus., Inc. v. Reinke Mfg. Co., 983 F.24 (199) 1041-42. 25 USPQ26 1451, 1451, 1454 (Fed. Cir. 1993); Texas Instruments, Inc. v. United States Int'l Trade Comm'n, 805 F.2d (158, 1562-63, 231 USPQ 833, 834-35 (Fed. Cir. 1986). on how the patented and accused devices worked, and the court instructed the jury as to the applicable law of infringement of At the trial the parties presented evidence energizing means is not the same as that described in the '308 specification, the issue performs the function stated in the claim is the same as or an equivalent of the corremeans-plus-function claims. For the energizwas whether the structures are equivalent. See D.M.L., 755 F.2d at 1575, 225 USPQ at sponding structure described in the patentee's specification as performing that func-tion.") The determination of infringement Corp. v. United States Int'l Trade Comm'n, 946 F.2d 821, 841, 20 USPQ2d 1161, 1178 239 ("[T]he sole question is whether the single means in the accused device which Inc. Patent Litig., 982 F.2d 1527, 1541, 25 USPQ2d 1241, 1251 (Fed. Cir. 1992); Intel under section 112 paragraph 6 is a factual question. In re Hayes Microcomputer Prods Fed. Cir. 1991); D.M.I., supra.

There was no dispute that the function of equential energizing is performed in the M3 Systems' guns; the only question was wheth-

time the patented invention was made. See Texas Instruments. 805 F.2d at 1563-64, 231 USPQ at 834-35 ("It is not required that '308 specification. The accused equivalent er the M3 guns employ the sume or an equivalent of the structure described in the structure need not have been known at the those skilled in the arr knew, at the time the patent application was filed, of the asserted equivalent means of performing the claimed functions. . . .

sequential energizing in the '308 device the outer tensioning sleeve is rotated about the inner guide sleeve; cam surfaces on the interior of the tensioning sleeve push against wings built directly into the needle heads to compress the two springs in sequence, pressing them rearward into the locked position. In contrast, in the M3 Systems device a handle connected through the rear of the housing acts on sleds bearing the needles; M3's device relies on the lever-action of the handle, as opposed to a rotating sleeve, to pull, rather than push, the needle sleds sequentially back toward their respective tion with the issue of validity, that the claims "inust be interpreted as means-plus-function its "external integrated energizing interpreted the same way for determining infringement as was done to sustain their It was explained at trial that to achieve latches. Bard had argued at trial, in connecterms in accordance with Valmont," and mechanism that converts rotary motion to linear motion" to distinguish the '308 gun from its own earlier device. Claims must be validity. cited

that it suffices for infringement if the energizing is achieved with the slight overlap shown in the '308 patent, that is, if the [7] A reasonable jury could have found that the structure using rotational tensioning ferent from the energizing structure in the M3 Systems guns. Although Bard argues function of sequential energizing is perized by section 112 paragraph 6 are limited by the structure described and equivalents of as the energizing means is substantially difformed, claims written in the form authorthat structure. Performance of the same function does not of itself establish infringement.

Bard directs us to the doctrine of claim to interpret the "sequential energizing differentiation, and argues that it is incorrect means" of claim 15 as limited to the structure in the specification, because other claims, not at issue, specifically state that structure. Bard argues that its claims in suit are broader in that they state only the function of sequential energizing, and that they therefore warrant broader scope than the

ture. However, as we have discussed, claims that are written in the form authorized by section 112 paragraph 6 are by statute limit-section 112 paragraph 6 are by statute limit-ed to the structure described in the specification and equivalents of that structure. As discussed in Lairam Corp. N. Rexnord, Inc., 939 F.2d 1533, 1538, 19 USPQ2d 1367, 1371 (Fed. Cir. 1991) a "means-plus-function limitation is not made open-ended by the presence of another claim specifically claiming the disclosed structure which underlies the means clause or an equivalent of that

Applying this law, and based on the abApplying this law, and based on the absence of a guide sleeve or any counterpart
structure, and the differences in the structures of the energizing mechanisms, we conclude that on the correct claim interpretation
a reasonable jury could find that claims 15
and 16 are not infringed. The judgment of
and 16 are not infringed. The judgment of
affirmed.

#### CITAG

M3 Systems charged that Bard had committed both fraud and inequitable conduct in prosecuting the '056 and '308 patents. The jury was not asked to decide the issue of inequitable conduct, which was reserved to inequitable conduct, which was reserved to reput of the judge and withdrawn by M3 after the favorable verdicts on the question of fraud. The jury found that it had been established by clear and convincing evidence that each of the '056 and the '308 patents had been mark Office.

Fraud in the procurement of a patent srequires proof of the elements of fraud as developed in the common law: (1) that a value of 12 with the intent to deceive. (3) which induced the deceived party to act in justifiable reliance on the misrepresentation, and (4) which caused injury that would not otherwise have occurred. See Nobelpharma otherwise have occurred. See Nobelpharma otherwise have occurred. See Nobelpharma (Fed. Cir. 1998): Norton v. Curtiss, 433 (Fed. Cir. 1998): Real of 1970) (citing W. Sanaser, Law of Torts §§100-05 (3d ed.

or deliberate omission of a fact material to patentability. (2) made with the intent to deceive the patent examiner, (3) on which the examiner justifiably relied in granting the patent, and (4) but for which misrepresentation or deliberate omission the patent would not have been granted. A finding of fraud can of itself render the patent unenforceable, and, when accompanied by the elements of violation of the Sherman Act, as discussed in Part VI, can incur additional

relied thereon. See Kingsdown Med. Consultants v. Hollister. Inc., 863 F.2d 867, 872, 9 USPQ2d 1384, 1389 (Fed. Cir. 1988). honesty, a deliberately planned and carefully executed scheme to defraud \* \* the Patent Office. Patent fraud cases prior to Walker required a rigorous standard of whether or not the examiner is shown to have predicate to potential antitrust violation. As explained in Handgards, Inc. v. Ethicon, Inc., 601 F.2d 986, 996, 202 USPQ 342, 351 (9th Cir. 1979), "[t]he road to the Patent Office is so tortuous and patent litigation is deceit.... Walker requires no less." (Emphasis and elisions in original.) The requirements of common law fraud are in contrast with the broader sweep of "inequitable conduct," an equitable defense that may be satisfied when material information is withheld with the intent to deceive the examiner, mean no less than clear, convincing proof of intentional fraud involving affirmative dis-Process Equip., Inc. v. Food Mach. & Chem. Corp., 382 U.S. 172, 177, 147 USPQ 404, 407 (1965) the Court clarified that "knowing and willful" fraud must be shown, and is usually so complex, that 'knowing and willful fraud' as the term is used in Walker can (rel. 47 1993) (citations omitted). In Walker To establish fraud for purposes of anti-Irust violation the defendant "must make a than when seeking unenforceability based on conduct before the Patent Office. 6 Donald S. Chisum, Chisum on Patents §19.03[6][e] greater showing of scienter and materiality consequences.

M3 Systems stated that Bard made myriad material misrepresentations in prosecuting the '056 and the '308 patents, including the following: the incorrect inventors were named; actual sampless of the Tru-Cut necless and the first generation device were not the Tru-Cut needle and two Lindgren articles on the first generation device were not provided to the examiner; the material submitted to the FDA was not provided to the texaminer; the material submitted to the FDA was not provided to the comminer was not told of the examiner; the copending design patents, and the examiner was not provided to the copending design patents, and the examiner was not provided with all of the evidence on the on-sale issue. Bard responded that

there is no substance to any of these assertions; that all material information was presented to the examiner; that there was no intent to deceive the examiner; that the evaminer was not deceived; and that the evidence points to good faith in the prosecution of these pattents. Good faith is an absolute defense to the charge of common law fraud. See Walker Process, 382 U.S. at 177, 147. USPQ at 407.

cation is the intended natural consequence of that submission." That is not a correct statement of the law. There is no presumption that information not filed by an applicant was material simply because patentability clear and convincing evidence. See Walker Process, supra. Deceptive intent is not inferred simply because information was in existence that was not presented to the examiner; and indeed, it is notable that in the ity of inventions, the virtually unlimited sources of information, and the burdens of patent examination. See Northern Telecom, 908 F.2d at 939, 15 USPQ2d at 1327 (dismust be of a fact material to patentability and it must be a deliberate misrepresenta-tion, whether by omission or misstatement, that was intended to and did mislead the examiner into taking favorable action that would not otherwise have been taken. Intent ensued. To establish culpability any omission to mislead or to deceive must be proved by usual course of patent prosecution many choices are made, recognizing the complexcussing the ease with which routine patent prosecution may be portrayed as tainted in the submissions to the PTO is "necessarily material, because the allowance of the appli-[8] M3 Systems argues that any omission conduct)

Following are the actions that M3 Systems presented as probative of fraud in the prosecution of the '056 or the '308 patent:

## 1. The Inventorship Issue

This issue was discussed ante in connection with the validity of the '056 patent. There was no evidence of intent to deceive in correcting the inventorably to include Mr. Akerfeldt with Dr. Lindgren as joint inventors. The question of Mr. Taylor's role as a possible inventor did not present substantial evidence of fraud. Indeed, since the inventor evidence of grounds of invalidity, it can not satisfy the "but for" test of fraud.

# 2. Provision of Actual Models to the Examiner

M3 Systems argued that Bard should have provided the reissue examiner with actual models of the first generation gun and the

Tru-Cut needles, in addition to the PCT application and publications describing the needles. The PCT application described the first generation gun, and descriptions of the Tru-Cut needles were before the examiner. Reviewing the prosecution history we do not discern substantial evidence of material withholding, for cumulative information is not material to patentability, and there was not evidence of deceptive intent or that the examiner was deceived into granting the resumment was deceived into granting the resumment.

## Provision of On-Sale Information to the Examiner.

of fraud.

also disclosed to the PTO Radiplast's sales diplast's letters to doctors concerning the quotation included a profit, and Radiplast's M3 Systems states that Bard should have activities for the first generation device, Raclinical trials, the fact that the bulk price cussed ante in connection with the on-sale tal tests and the proposed distribution rela-Bard filed with the PTO descriptions of the transactions involving Radiplast and Pharmaseal before the critical date, accompanied by documents including the invoice for the 10 guns and 250 needles for the clinical trials, the bulk price quotation disissue, and declarations concerning the hospitionship between Radiplast and Pharmaseal letter to Dr. Phelps.

during discovery of Radiplast's files in Sweden. There was no evidence that Bard had obtained and withheld this information during the reissue prosecution. With respect to the bulk price quotation, M3 Systems states paper. Bard responds that the documents Radiplast's efforts to find a distributor and its transactions with Pharmaseal, and that the total number of documents was not so voluminous, or the contents so difficult to intentional concealment of any particular document that was filed. We agree that these documents, all in the prosecution history, are it submitted to the PTO all the relevant material it had obtained. The letter to Dr. that Bard should have dagged this document and described its significance to the examiner, lest it be overlooked in the volume of provided to the examiner were a record of understand, as to support an inference of Concerning Dr. Phelps. Bard answers that Phelps was obtained after suit was filed, easily read.

<sup>\*</sup>The record provided us does not show any response from the PTO. Although Bard states that "the [PTO] determined that the transfers to American Pharmascal [] were for primarily experimental purposes and therefore did not trigger

On reviewing these filings in the PTO we have been directed to no evidence of material withholding or the provision of false information, or of intent to deceive or actual deception. The additional subject matter that M3 states should have been included was not stayes should have been included was not they to be material or other than cumulative. These actions did not constitute substantial evidence of fraud.

4. Disclosure of the Information Filed with the FDA

None of the material provided us with respect to Radiplast's 510(k) pre-market notification filed with the Food & Drug Administration supports a finding of fraud in the patent prosecution. M3 Systems concentrates on the presence in this package of trates on the presence in this package of the designated manufacturer. As we have explained, the inventorship issues that have been raised do not provide substantial evidence of fraudulent procurement of these patents.

## 5. Disclosure of the PCT Application

The PCT application had been submitted to the PTO during prosecution of the '154 patent and again during the '056 reissue proceedings. M3 Systems states that Bard withheld the PCT application from the examiner of the '308 patent and then mischaracters.

M3 Systems stated at trial and repeats on this appeal that Bard submitted the PCT application to the examiner of the 308 patent only after allowance of the 308 claims in suit, and then falsely represented that it was suit, and then falsely represented that it was then numbered). Bard complains that as then numbered). Bard complains that M3 misstated at trial, and complains that prosecution history in the record shows that Bard cited the PCT application and filed a copy thereof with a Supplemental Information Disclosure Statement accompanying Bard's first response, filed October 13, 1989, to the first Office Action. Contrary to M3's statements, the prosecution record shows statements, the PCT application was submitted to the PTO.

submitted to the P.I.O.
In submitting the PCT Application Bard's patent attorney pointed out the aspect of that

application that M3 Systems has stated is of greatest significance, viz., the separate and thus sequential hand cocking of the springs in the first generation device. In the Remarks section of the response Bard discussed relaims 21-23. The claims specific to sequential energizing. We discern no support for M3's argument that Bard misrepresented the content of the PCT application, or that the examiner did not consider the PCT application or that examiner did not consider the PCT application or that reference, the same day a telephone this reference, the same day a telephone interview was held that led to an examiner amendment, followed by allowance on January 3, 1990. The charge of fraud based on these events is totally without substance.

### Conclusion

These asserted flaws in patent prosecution, separately or taken together, do not constitute substantial evidence of fraud. The verdicts of fraud in procuring the '056 and '308 patents can not stand, and the judgment on these verdicts is reversed.

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## ANTITRUST ISSUES

stantial evidence, and that judgment as a cured patents; second, that Bard threatened and then brought suit knowing that its pat-ents were invalid, unenforceable, or not in-fringed; and third, that Bard unlawfully leveraged its monopoly power in the guns to obtain a competitive advantage in replace-\$1.5 million, which were trebled as required by section 4 of the Clayton Act. Bard argues ment needles by modifying its gun to accept only Bard needles. The jury found in favor of M3 Systems and against Bard on every questhat the findings are not supported by submeasured primarily as litigation costs, of fully automated biopsy guns and needles, guns alone, and replacement needles. The jury instructions on the antitrust count iden-tified three separate claims, first, that the patents were procured by fraud followed by attempts to enforce the fraudulently protion, and assessed compensatory damages, nopolize the relevant markets for each of verdicts that Bard by anticompetitive conduct had monopolized or attempted to mo-Antitrust violation was found on special matter of law should have been granted.

## A. The Walker Process Claim

determination of the other elements of the section 2 violation, viz. market power in the relevant market and illegal restraints on competition,

since not unique to the patent right would continue to be governed by regional circuit law. 141 F.3d at 1067-68, 46 USPQ2d at 1104.

In Nobelpharma the Federal Circuit held in banc that Federal Circuit law would thenceforth apply to determination of whether fraudulent conduct occurred in obtaining a patent, whereas

Fraud in obtaining a United States patent is a classical ground of invalidity or unenfor-

ceability of the patent. In Walker Process, 382 U.S. 772, 147 USPQ 404 the Court established that antitrust liability under section 2 of the Sherman Act may arise when a patent has been procured by knowing and willful fraud, the patentee has market power in the relevant market, and has used its fraudulently obtained patent to restrain competition. Restraint on competition based on power in the relevant market must be established on the criteria of section 2, when the patent has been fraudulently obtained. See Nobelpharma, 141 E.3d at 1068, 46 USPQ2d at 1104; Spectrum Sports, Inc. v. McQuillan, 506 U.S. 447, 455-56 (1993) (explaining Walker Process as requiring appraisal of the exclusionary power of the fraudulently obtained patent in terms of the

The jury found by special verdicts that the '056 and '308 patents were obtained by fraud in their prosecution before the PTO, as discussed in Part V, ante. The jury also found that "there is a relevant product market" for the biopsy guns and needles, together and separately, that Bard had monopoly power in each market and had "engaged in restrictive or exclusionary conduct with the conscious object of acquiring monopoly power in that market."

relevant market for the product involved).

tute monopoly power prohibited by the Sherman Act. Walker Process, 382 U.S. at 177-78, 147 USPQ at 407. As the Second lishes market power in antitrust terms. See Abbott Labs. v. Brennan, 952 F.2d 1346, 1354, 21 USPQ2d 1192, 1199 (Fed. Cir. 1991) (possession of patent, and market adtrust market power). The virtually unlimited [9] It is not presumed that the patentbased right to exclude necessarily estabvantages thus gained, do not establish antivariety and scope of patented inventions and market situations militate against per se rules in these complex areas. Unless the patent had been obtained by fraud such that he market position had been gained illegaly, the patent right to exclude does not constiaws require a patent holder to forfeit the exclusionary power inherent in his patent the 'No court has ever held that the antitrust Circuit stated in SCM Corp. v. Xerox Corp.

instant his patent monopoly affords him monopoly power over a relevant product market." 645 F.2d 1195, 1204, 209 USPQ 389, 899 (2d Cir. 1981).

[10] Thus it was necessary for M3 Systems to establish market power as well as fraudulent procurement of the patent and that Bard's related commercial activity was coupled with violations of section 2. In addition, applying the law of the Seventh Circuit to the elements of section 2. M3 was required to establish that Bard had a specific intent to monopolize, engaged in anti-competitive conduct, and had a dangerous probability of success. See Great Escape, Inc. v. Union City Body Co., 791 F.24 512, \$40 (7th Cir. 1986). These, issues were argued at trial, and by special verdicts the jury found culpability on the part of Bard. However, in view of the incorrect verdicts on the question of fraud in procurement of the '056 and '308 patents, as discussed in Part V, as a matter of law the judgment of antitrust violation can not be sustained on Walker Process grounds.

## B. "Sham" Litigation

Conduct prohibited under antitrust law includes bringing suit to enforce a patent with knowledge that the patent is invalid or not infringed, and the litigation is conducted for anti-competitive purposes. In such events the antitrust immunity of Noerr-Penningion and California Motor Transp. Co. v. Trucking Unitd., 404 U.S. 508 (1972) does not apply to those who seek redress, through judicial process.

Estate Investors, Inc. v. Columbia Pictures Indus., Inc. (PRE) established the two-part criteria of "sham" litigation: (1) the lawsuit must be objectively meritless such that "no "the baseless lawsuit conceals 'an attempt to interfere directly with the business relationships of a competitor." 508 U.S. 49, 60, 26 USPQ2d 1641, 1646 (1993) (emphasis in 127, 144 (1961)). The Court declined to The Supreme Court in Professional Real reasonable litigant could expect success on the merits" and (2) it must be found that decide "whether and, if so, to what extent liability for a litigant's fraud or other misrepresentations." PRE, 508 U.S. at 62 & n.6, 26 USPQ2d at 1646-47 & n.6. Fraud in the original) (quoting Eastern R.R. Presidents Noerr permits the imposition of antitrust Conf. v. Noerr Motor Freight. Inc., 365 U.S. procurement of a patent is governed by plainant "must still prove a substantive anti-trust violation." PRE, 501 U.S. at 61, 26 Walker Process and, as in PRE, the com-JSPQ2d at 1646.

the bar," the record citations do not relate to this statement.

gation grounds. Thus although sham litigation as a tactic

process," and requiring clear and convincing process," and requiring clear and convincing evidence to bad faith), sham litigation requires more than a failed legal theory. PRE, quires more than a failed legal theory. PRE, 508 U.S. at 60-61 & n.5, 26 USPQ2d at 508 U.S. at 60-61 & n.5, 26 USPQ2d at 1546 & n.5, see Carroll Touch, Inc. v. Electical Mechanical Sys., Inc., 15 F.3d 1573, 179-Mechanical Sys., Inc., 15 F.3d 1573, 1782, 27 USPQ2d 1836, 1844 (Fed. Cir. to destroy competition can lead to antitrust violation, see U.S. Philips Corp. v. Sears Noebuck & Co., 55 F.3d 592, 597, 34 USPQ2d 1699, 1703 (Fed. Cir. 1995); cf. Handgards, Inc. v. Ethicon, Inc., 743 F.2d Handgards, Inc. v. Ethicon, Inc., 743 F.2d Handgards, Inc. v. Exp. 222, 1289, 223 USPQ 214, 222-23 (9th Cir. 1984) (addressing Noerr-Pennington issue tion the claimant must show "some abuse of and explaining that to invoke "sham" excep-

good faith, see Viriue v. Creamery Package M/g. Co., 227 U.S. 8, 37-38 (1913); this presumption is overcome only by affirmative The law recognizes a presumption that the assertion of a duly granted patent is made in other commercial commitments can be made, absent the PRE criteria the patentee must have the right of enforcement of a duly granted patent, unencumbered by punitive consequences should the patent's validity or infringement not survive litigation. See id. patent system is to provide infamiltors with a ity, subjects the suitor to antitrust liability. Cf. Concrete Unlid. Inc. v. Cemenicraft, Inc. 776 F.2d 1537, 1539, 227 USPQ 784, 785 (Fed. Cir. 1985) (no liability for unfair id patent). Since a principal purpose of the property right upon which insenstment and competition based on suit to enforce an invalful suit to enforce patent rights, nor the effort to enforce a patent that falls to invalid-[11] Neither the bringing of an unsuccessevidence of bad faith. See PRE, supra.

the concept of infringement under the doc-trine of equivalents. This was the totality of patent, or whether they were familiar with the evidence of sham litigation concerning with respect to the '308 patent. This does dles did not infringe had ever read the '056 the '056 patent; there was no evidence at all that he did not think the original M3 needle infringed the '056 patent and that other Bard employees had told him that M3 changed its needle design to one that did not infringe. The engineer also testified that he did not know whether those who told him M3's nec-M3 Systems states that Bard knew its suit, citing the testimony of a Bard engineer patents were not infringed when it brought

· M3 in its brief states that: "The Jury specifically found that BARD had actual knowledge that M3 did not infringe its patents or that the patents were invalid. [A10096; 11-3 M 6,11]."

not constitute substantial evidence that this brought in bad faith. The judgment of antitrust violation can not be upheld on sham litilitigation was objectively meritless

## C. Attempt to Monopolize"

was not suitable for its new gun because it ucts and concern for patent scope and market share. Bard replies that the Tru-Cut could not achieve reverse motion, and points out that M3's witness acknowledged that M3 could effectively compete, as were several other producers of biopsy guns and needles. modified its biopsy gun and needles for the purpose of preventing use of Tru-Cut needles contends that Bard's motives were anti-competitive, pointing to Bard documents showing internal discussions of competitive prodand then to exclude M3's copies so that they did not fit the gun without an adapter. M3 M3 Systems proposed that Bard had

1993).

example, the jury instruction on intent to monopolize was as follows: tinguish patent-supported products and markets based thereon from actions described to Bard was under no duty to facilitate M3's competition by refraining from changing its the jury as being in restraint of trade. For products. The jury instructions did not dis-

sionary conduct, there exists a dangerous ly power in any market. In order to win on lowing elements by a preponderance of the M3 Systems also alleges that it was injured by Bard's unlawful attempt to monopolize. An attempt to monopolize may be proven even if Bard lacks monopoly probability that Bard will obtain monopoits claims of attempted monopolization, M3 Systems must prove each of the folpower, but because of its alleged excluevidence:

sionary or restrictive conduct in further ance of its specific intent; third, that there achieve monopoly power in a relevant market; second, that Bard engaged in exclu-First, that Bard had a specific intent to

"actual knowledge." The cites to 196 & 11 are to the jury's finding of patent misuse, and the jury instructions at A10096 concern the duty of candor to the PTO. The source of the quoted "actual dor to the PTO. not helpful to the appellate tribunal; see also note knowledge" is not given. Such misdirections are There is no specific finding in the verdict form of

judgment of antitrust violation on this ground; see the separate opinion of Judge Bryson, joined by Chief Judge Mayer. This section contains the 6, supra.
7. The court has affirmed the district court's dissenting opinion of Judge Newman.

evant market; and, fourth, that M3 Systems was injured in its business or properwas a dangerous probability that Bard would obtain monopoly power in the relby Bard's conduct.

tion was made of the patentee's statutory right to exclude, and there was no instruction ferred to "exclusionary or restrictive conduct" and "unreasonable acts and practices," again without reference to patented products" is not exclusionary or restrictive, the court also stated that "where conduct is ambiguous, direct evidence of a specific intent to monopolize may lead you to conclude that the conduct was intended to be and was in fact exclusionary or restrictive." No menproducts and their status in the law. Although the court instructed that "conduct that involves the introduction of superior In explaining further, the district court reto consider that right.

violation of antitrust law. Thus I must, respectfully, dissent from the court's ruling that Bard incurred liability under the Sherman and Clayton Acts by its actions in modifying and improving its patented products, thereby requiring M3 to provide an and taking no cognizance of the legal rights of the patent grant, do not rise to the level of adapter with its replacement needles for the These broadly stated descriptions of exclusionary or restrictive conduct, unlimited by the conditions set in Walker Process or PRE Bard gun.

jury question of violation of the Sherman Act. See California Computer Prods.. Inc. v. International Bus. Mach. Corp., 613 F.2d that was capable of reverse movement, thus tion of the inner needle while the cannula remained in place. This needle assembly is the subject of the '056 patent. The record states that M3 was obliged to use an adapter This does not, as a matter of law, present a 727, 744 (9th Cir. 1979) (when the innovapetition is not an antitrust violation, and no from the Tru-Cut to a newly designed needle facilitating removal, inspection, and reinserto fit its existing needles to Bard's gun; that tion is an improvement, that it affects comsustained, although the power held by Bard in this market is based on the patent right. Bard or its predecessor Radiplast changed is the antitrust ill of which M3 complained. The panel majority on this issue holds that the jury verdict of monopoly power must be lury question arises).

Both the needle assembly alone and the patented. They were subject to Bard's pamaking, using, or selling them. It was not integrated biopsy gun/needle device were tent-based rights to exclude others from

dles; it was the patents on these products. To hold that Bard could violate the Sherman Act by changing these products, if M3's and pernicious theory of antitrust law that is contrary to the principles of competition, and Bard's changes to its biopsy gun or needles business was adversely affected, is a novel that affected M3's sale of replacement neefraught with litigation-generating mischief

Kodak Co., 603 F.2d 263, 281 (2d Cir. 1979). In California Computer the court observed that "[IBM] was under no duty to F.2d at 744. This court has today created a proper functioning of our competitive economy rests." Berkey Photo, Inc. v. Eastman Kodak. Co., 603 F.2d 263, 281 (2d Cir. new, vague, and unworkable cause of action. of clear public detriment, with no balancing changing and improving one's proprietary product that has created its own market niche, if to a competitor's potential disadvan-The competition-favoring rule is that an innovator has no duty to help its competitors: that provides the incentives on which the help CalComp or other peripheral equip-Fed. Cir. 1997) that "a patentee may lawfully police a market that is effectively defined by its patent," this court now holds that tage, is actionable under the Sherman Act. 'It is the possibility of success in the marketplace, attributable to superior performance, Virginia Panel Corp. v. MAC Panel Co., 133 F.3d 866, 873-74, 45 USPQ2d 1225, 1236 Despite this court's recent affirmation in ment manufacturers survive or expand. public benefit.

of competition, and hence did not violate the Sherman Act." Id. at 1382. no case in which such a charge has been sustained. In In re IBM Peripheral EDP Devices Antitrust Litig., 481 F. Supp. 965, 1002-05 (N.D. Cal. 1979), aff d sub nom. Transamerica Computer Co. v. International Bus. Mach. Corp., 698 F.2d 1377 (9th Cir. 1983), cited by the panel majority, the district court declined to assess liability for IBM's interface changes that prevented use of competitors' peripheral devices when "the contested changes were improvements in the products, were not unreasonably restrictive an innovator from making changes or improvements to its products, when others may ever, cases where this issue has been litigated impact than here asserted; and I have found have been of a different order of competitive The concept that antitrust law should bar be affected thereby, is not brand new. How-

A basic premise of patent law, and antitrust law in general, is that the commercial advantage gained by new technology, and its statutory protection by patent, do not convert the possessor thereof into a prohibited monupolist. In United States v. Grinnell

Corp., 384 U.S. 563, 570-71 (1909) the Court distinguished the willful acquisition or maintenance of monopoly power from maintenance of monopoly power from superior product, business acumen, or historic accident." See also Jefferson Parish Hospital District No. 2 v. Hyde, 466 U.S. 1, 71 n.7 (1984) ("A common misconception as been that a patent or copyright, a high market share, or a unique product that competitors are not able to offer suffices to demonstrate market power.") (O'Connor, J., demonstrate market power.") (O'Connor, J., donumics, Inc., 806 F.24 673, 676 (6th Cir.) 1986) (rejecting "any absolute presumption of market power for copyright or patented

When the market for new technology is protected by patent, to violate the antitrust law there must be an improper use of the patent right, "coupled with violations of §2." Walker Process. 382 U.S. at 177-78, 147 Walker Process the Court again explained that a patent does not of itself establish a presumption of market power in the antitrust sense. Id. at 178, 147 USPQ at 406. In American Hoist & Derrick Co. v. Sowa & Sons, Inc., 725 F.2d 1350. Co. v. Sowa & Sons, Inc., 725 F.2d 1350. this court wrote that "patent rights are not legal monopolies in the antitrust sense of the was asked to determine simply whether Bard was asked to determine simply whether Bard was not of the monopoly power in a relevant market, without reference to whether the "exclusionary conduct." of which M3 complained was

the conduct of the patent law.

M3 did not allege the elements of an antitrust violation when patents are involved.

See. e. Joubble D Spotting Service. Inc. v. Supervalu. Inc., 136 F.3d 554, 558 (8th Cir. 1998) ("The essential elements of a private patient stain must be alleged in more than antitrust claim must be alleged in more than insal of the complaint on a defendant's missal of the complaint on a defendant's [Rule] 12(b)(6) motion.") (quoting Crane & Shovel Sales Corp. v. Bucyrus-Erie Co. 854 F.2d 802, 805 (6th Cir. 1988)); Okusami v. Psychiatric Institute of Washington. Inc., 959 F.2d 1062, 1065 (D.C. Cir. 1992) ("IT) he plaintiff's antitrust claims, lacking the essential element of an agreement, were properly dismissed for failure to state a claim was the missal for failure to state a claim was the response to M3's undifferentiated as sertion of anticompetitive practices.

sertion of anticompounts of the litigation opfortunity affecting innovation-based industry, that is here so casually enabled. "Where competitors' products must interface with the monopolist's product the monopolist's

that interconnection more difficult or expensive might violate Section 2, although no sive might violate Section 2, although no court has specifically so held." I American Bar Assoc. Antitrust Law Developments 286 (4th ed. 1997) (emphasis added). As a sister circuit recently stated. "Antitrust scholars have long recognized the undesirability of having courts oversee product debility of having courts oversee product debility of having courts oversee product design, and any dampening of technological innovation would be at cross-purposes with antitrust law." United States v. Microsoft Corp., 147 F.34 935, 948 (D.C. Cir. 1998).

court deems it appropriate to add this burden least be some overriding public benefit. However, antitrust jurisprudence has well underlaws is self-defeating if it chills or stiffes predatory" have concluded that "no ad-ministrable rule could be fashioned that 3 Phillip E. Arceda & Herbert Hovenkamp. Antitrust Law §705b (rev. ed. 1996). If this to patent-based innovation, there should at stood that the enforcement of the antitrust product accordingly. Commentators who have considered the question of "whether rights here present. It is without precedent to find antitrust liability premised on a theory anticompetitive when the new product requires competing suppliers to adjust their product innovation can ever be unlawfully would not exact an unreasonably heavy toll." that development of new products is illegally The proceedings at trial, and the jury instructions, made no mention of the patent innovation. See IBM Peripherals, supra.

Neither the jury instructions nor the special interrogatories framed a charge of predatory conduct that comports with established criteria of antitrust liability. It appears that this charge at trial was cobbled together from left-over allegations of bad acts by bad actors. Indeed, M3's antitrust counterclaims mention only Walker Process fraud and sham litigation, which all members of this panel agree were not established. I can not discern, in the law or in the record of this case, either legal or factual support for this new form of antitrust liability.

ΙN

## MISUSE; OTHER ISSUES

The defense of patent misuse arises from the equitable doctrine of unclean hands, and relates generally to the use of patent rights to obtain or to coorce an unfair commercial advantage. Patent misuse relates primarily to a patentee's actions that affect competition in unpatented goods or that otherwise

extend the economic effect beyond the scope of the patent grant. See Mallinckrodt, Inc. v. Medipurt, Inc., 976 F.2d 700, 703-04, 24 USPQ2d 1173, 1176 (Fed. Cir. 1992) ("The concept of patent misuse arose to restrain practices that did not in themselves violate any law, but that draw anticompetitive strength from the patent right, and thus were deemed to be contrary to public policy.")

Patent misuse is viewed as a broader wrong than antitrust violation because of the economic power that may be derived from the patentee's right to exclude. Thus misuse may arise when the conditions of antitrust violation are not met. See Zenith Radio Corp. v. Hazeltine Research. Inc., 395 U.S. 100, 140-41, 161 USPQ 577, 597 (1969). The key inquiry is whether, by imposing conditions that derive their force from the patent, the patentee has impermissibly broadened the scope of the patent grant with anticompetitive effect. See Virginia Panel Corp. v. MAC Panel Co., 133 F.34 860, 868, 45 USPQ24 1225, 1231-32 (Fed. Cir. 1997); B. Braun Medical, Inc. v. Abbont Labs., 124 F.3d 1419, 1426, 43 USPQ2d 1896, 1902 (Fed. Cir. 1997); Mallinckrodt, 976 F.2d at 104, 24 USPQ2d at 1176.

The jury returned special verdicts that Bard had misused both the '056 and '308 patents. Patent misuse arises in equity, and a holding of misuse erafers the patent unenforceable until the misuse is purged; it does not, of itself, invalidate the patent. See Mornos Salt Co. v. G. S. Suppinger Co., 31 4 U.S. Wes [78 S2 USPQ 30] (1942); Senza-Gel Corp. v. Seiffaurt. 803 F.2d 661, 668 n.10, 231 USPQ 363, 368 n.10 (Fed. Cir. 1986). When a jury has determined that patent misuse occurred we review the underlying findings occurred we review the underlying findings of presuming that the jury resolved any factual disputes in favor of the verdict winner. We then determine whether, on the found or presumend facts, the conclusion on the issue of misuse is correct. See Virginia Panel, 133 F.3d at 868, 45 USPQ2d at 1231-32.

The jury instruction on patent misuse was focussed primarily on the charge that Bard was attempting to enforce the patents against goods known not to be infringing, the court explaining that antitrust violation is not necessary to find misuse if patents have been used "wrongfully" to exclude competitors:

A patent is unenforceable for misuse if the patent owner attempts to exclude products from the marketplace which do not infringe the claims of the patent and the patent owner has actual knowledge that those products do not infringe any claim of

the patents. The patent is also unenforceable for misuse when a patent owner attempts to use the patent to exclude competitors from their marketplace knowing that the patent was invalid or unenforce-

A patent will not be rendered unenforceable for misuse if the patent owner has enforced the patent in the good faith belief that the accused products infringed the patent's claims.

You may consider all aspects of the conduct of the patent owner in deciding whether a patent has been misused. In order to find misuse, you may not determine that an antitrust violation has been proved. Even if an antitrust violation has not been proven, you may still find that the patents have been used wrongfully.

This instruction calls to mind the view expressed in USM Corp. v. SPS Techs.. Inc., 694 F.2d. 505, 510, 216 USPQ 959, 963 (7th Cir. 1982) that the misuse doctrine is 'too vague a formulation to be usc'iul." Although the defense of patent misuse indeed evolved to protect against "wrongful" use of patents, the catalog of practices labelled "patent misuse" does not include a general notion of use." See id. ("in application, the doctrine has largely been confined to a handful of specific practices").

M3 Systems did not propose any of the classic grounds of patent misuse, such as tying or enforced package licensing or price restraints or extended voyalty terms, see Chisum, supra, §19.04[3], but generally urged the view that Bard's actions, even if not illegal, were an improper use of patents. Although the law should not condone wrongful commercial activity, the body of misuse law and precedent need not be enlarged into an open-ended pitfall for patent-supported commercial activity.

[12] There was no evidence that Bard's competitive activities were either per se patent misuse or that they were not "reasonably within the patent grant." See Mallinckrodt, 976 F.2d at 708, 24 USPO2d at 1180. The conduct to which the jury instruction on misuse generally refers, that is, "wrongful" enforcement of patents, is activity protected under Noerr and California Motor, and is not subject to collateral attack as a new ground of "misuse." M3 Systems adduced no evidence of patent misuse other than was presented for its antitrust claims. It is not patent misuse to bring suit to enforce patent rights not fraudulently obtained, nor is otherwise legal competition such behavior as to

warrant creation of a new class of prohibited commercial conduct when patents are in-

he verdicts of patent misuse are not supported by evidence or correct legal theory. The judgment on these verdicts is reversed.

## Other Arguments/Issues

laws and regulations, we take note that no motion for a new trial was made on this ground, and the issue is not before us for relevance. With respect to Bard's frequent violations of Food and Drug Administration We have not discussed every minor argument and issue raised in this appeal. All have been considered, and we have discussed those references to jury prejudice resulting from disclosure to the jury of Bard's recent civil penalties and criminal convictions for several review.

No costs.

Costs

### AFFIRMED IN PART, REVERSED IN PART, VACATED IN PART. AND REMANDED.

and C.J., concurring-in-part dissenting-in-part.

opinion sustaining the jury verdict on M3's antitrust counterclaim and remanding. My views on the validity of the '056 patent the validity and infringement of the '308 patent, and agree that the jury's verdict on fraud cannot stand. I join Judge Bryson's I join the court's opinion as it pertains to

'056 patent's parent application. M3 Systems presented the jury with two reasons why the invention may be invalid for violation of the on sale bar: a transfer from Radiplast to Pharmaseal of 250 needles in June 1985 and an offer from Radiplast to Dr. Ronald Phelps in November 1984. We may 1996). Because I believe that the jury had sale in November 1984, I would sustain the substantial evidence that Radiplast placed the invention claimed in the "056 patent on By special interrogatory, a jury found each of the disputed claims of the '056 patent invalid because the claimed invention was on sale in the United States more than one year before July 30, 1986, the filing date of the affirm the invalidity verdict on either basis. See. e.g., Ethicon Endo-Surgery, Inc. v. United States Surgical Corp., 93 F.3d 1572, 1582, 40 USPQ2d 1019, 1027 (Fed. Cir. jury's verdict of invalidity.

substantial evidence. See, e.g., Shatterproof Glass Corp. v. Libbey-Ovens Ford Co., 758 F.2d 613, 619, 225 USPQ 634, 636 (Fed. Cir. 1985); Railroad Dynamics. Inc. v. A. Stucki Co., 727 F.2d 1506, 1513, 220 USPQ 929, 936 (Fed. Cir. 1984). "Substantial evidence is such relevant evidence from the ultimate determination of a section 102(b) bar de novo, see, e.g., Ferag. 4G v. Quipp. Inc., 45 F. 3d 1562, 1566, 33 USPQ2d 1512, 1515 (Fed. Cir. 1995); U.S. Environmental Products Inc. v. Westall, 911 F.2d 713, 715, 15 USPQ2d 1898, 1900 (Fed. Cir. 1990), in considering its denial of Bard's motion for by a reasonable mind as adequate to support the finding under review." Perkin-Elmer Corp. v. Computervision Corp., 732 F.2d 888, 893, 221. USPQ 669, 673 (Fed. Cir. judgment as a matter of law, we review the jury's verdict, as did the trial court, for record taken as a whole as might be accepted than one year prior to the date of the application for patent in the United States" loses his right to patent the invention. 35 U.S.C. § 102(b) (1994). A determination that a prodfacts. See, e.g., Kers, come Retaining Wall facts. See, e.g., Vestrock, Inc., 997 F.2d 1444, 1451, 27 USPQ2d 1297, 1303 (Fed. Cir. 1993). While we review the trial court's is a question of law, based on underlying An inventor who places his invention "in public use or on sale in this country, more uct was placed on sale under section 102(b) 1984).

grant of the right to exclude others. See. e.g. Envirotech Corp. v. Westech Eng. Inc., 904 F.2d. 1571, 1574, 15. USPQ2d. 1230, 1232 (Fed. Cir., 1990); King Instrument Corp. v. Otari Corp., 767 F.2d. 853, 860, 226 USPQ 402, 407 (Fed. Cir. 1985); General Electric Co. v. United States, 654 F.2d. 55, 61, 211 unique facts of each transaction or event, no Nevertheless, we have held that "[floremost the public, has already come to believe are cialization that expands the patent system's JSPQ 867, 873 (Ct. Cl. 1981). Because the ultimate determination of whether an on sale stances, that is, on consideration of the one factor necessarily controls. See, e.g., Ferag, 45 F.3d at 1566, 33 USPQ2d at 1515. among these is the policy of preventing inty to experiment, improve, and determine the market value of inventions; discouraging inbar exists rests on the totality of the circumconclusion by principles underlying the on sale bar: broad and prompt disclosure of ventors from withdrawing inventions that freely available; and discouraging commer-We are guided in our review of the legal inventions to the public; providing opportuni-

beginning of the statutory term. To this end, the inventor is strictly held to the requirement that he file his patent application within one year of any attempt to commercialize the invention. Ferge, 45 F.3d at 1566, 33 USPQ2d at 1315 (internal citation omitted). their inventions while deferring the ventors from exploiting the commercial val-The inventor is entitled to the full benefit of the patent regime; the public is entitled to timely disclosure of the protected invention.

namic ultrasonic control, C.R. Bard Inc. v. M3 Systems Inc.

48 USPO2d

48 USPO2d

fluo roscopy.

The new device consists of a spring-trigger system for firing the two different parts of the cannula and the the needle obturator.

It is constructed of alloyed brass and, like Manufactured by ... RADIPLAST AB. See special instructions before using. the pressure rod, can be autoclaved..

By way of it managing director. Thomas Engström, Kadiplast, replied as follows to Phelps' letter on November 12, 1984;

We are likewise guided in our review by the principle that we must presume facts

necessary to support the jury verdict. See, e.g. Perkin-Elmer, 732. F.2d at 893, 221 USPQ at 673; Railroad Dynamics, 727 F.2d at 1516, 220 USPQ at 939. Given the on sale

necessary to support the jury verdict. e.g., Perkin-Elmer, 732 F.2d at 893.

bar verdict, we assume the jury found that Radiplast made a definite offer to sell cer-

tain subject matter and that this subject matter "fully anticipated the claimed inven-

25[,] 1984 and for your interest in our BIOPSY DEVICE. I am truly sorry for We thank you for your letter of [S]ept. Our generation No. 2 of the device will we, my late reply.

able for the device, start marketing in If you do not want to wait until we have our representation in USA arranged, you together with our new biopsy needles suit-USA beginning of \_\_\_85, at the moment can allways (sic) order the device directly we do not know through which company. from us.

tion or would have rendered the claimed invention obvious by its addition to the prior art." UMC Elec. Co. v. United States, 816 F.2d 647, 656, 2 USPQ2d 1465, 1472 (Fed.

United States Int 1 Trade Comm<sup>2</sup>, 958 F.2d 1066, 1071, 22 USPQ2d 1025, 1028 (Fed Cir. 1992). Thus, on review we must affirm the verdict of invalidity of the '056 patent if

Cir. 1987); see also LaBounty Mfg., Inc. v.

these factual findings are supported by substantial evidence, and within the context of

the various policies underlying the on sale bar, the totality of circumstances supports

he ultimate legal conclusion.

claved. Very little service has to be done on The device is reusable and can be autothe device due to reliable design. The needles are dispo[s]able and are designed to Our price for the device is SEK 9,900, and for the needles SEK 75, - /ea. suit the device.

am looking forward to hearing from you. l am enclosing leaflet and article. Emphasis added).

The Radiplast brochure that Phelps sent to Radiplast describes a device that can be leaving the physician's other hand free to operate the ultrasound or fluoroscopy equipment. The brochure describes both parts of the needle as automatized by way of a spring-trigger system. It describes the condevice as well as a procedure by which it can be cleaned. In short, the brochure can be understood to describe either a first generaoperated with one hand, by one operator, struction materials used to manufacture the tion prior art device or the second generation device described in the '056 patent.

closed brochure. I would appreciate it if you

"Radi-biospy device, a new device for percuinclude a price list. Thank you." Phelps included with this letter a brochure entitled taneous needle biopsy." This brochure described previously existing technology and new device has been constructed in the aid of this instrument the biopsy procedure can be carried out with one hand, and cannula are automatized, better tissue

then stated:

order to improve this biopsy method. With

as the movements of the obturator and specimens are obtained. All biopsies can be performed by one examiner under dy-

On September 25, 1984, Ronald Phelps, an Alabama medical doctor, sent Radiplast AB a letter that stated: "I am interested in learning more about the new device for percutaneous needle biopsy pictured on the enwould send me all the information you have pertaining to the instrument. Also, please

Offer for Sale

Despite this ambiguity, Engström's reply to Phelps' letter in November 1984 is far more telling both in what it said and when it said it. His letter explicitly refers to the second generation device and "new biopsy needles suitable for the device." Since the second generation device requires a needle that moves both forward and rearward, unlike the prior art TruCut needle, Engström's etter is a clear offer for sale of the second

States distributor thereafter, this letter was generation device and new biopsy needles. With the exception of a reference to marketefforts being made in the United States and the possibility of sales through a United written entirely in the present tense.

dimension from the top surface to center line of both cannula and stylet should be 4.2 mm. Regarding the needles we will probably start with 2.000 — 3.000 units bulk packed." Less than one month later, Engström sent Phelps the November 12, 1984, letter. 1984. "Biopsy needles: Enclosed please find our order for tooling and engineering. We approve your design of the plastic parts. The in length, diam, and the design of the point." On September 28, 1984, Hart Enterprises one of the Stylet Hub and one of the Cannula Hub for your Radiplast Biopsy Needle. If you approve these concepts we will proceed to make a prototype, and then production of the molds." Radiplast replied on October 18, ten: "Enclosed please find... a drawing on the biopsy needle. The stainless steel parts are not the final ones, there could be changes responded: "[E]nclosed are two drawings. Enterprises, a United States medical device facturing costs for these new biopsy needles. On September 4, 1984, Engström had writ-The letter was also written after a series of correspondence between Radiplast and Hart manufacturer, addressing tooling and manu-

invention claimed in the '056 patent. We review this second presumed factual finding for substantial evidence, and like the district court on its denial of Bard's motion for er whether there may be policy consider-These facts alone are sufficient support for the jury's verdict that there was a definite offer for sale of something more than the also had to decide whether this offer for sale new biopsy needles was an offer of the judgment as a matter of law, we also consid-TruCut prior art or first generation needles. However, to apply the on sale bar, the jury ations against imposing the on sale bar.

## II. Offer of the Claimed Invention

rights. Nor can subsequent clinical testing 1984 offer to sell second generation devices and new biopsy needles cannot trigger the bar because at that time no operable device had been made, FDA approval had not been obtained, Radiplast had not conducted clinical testing, it had not found a United States needle design. Bard misapprehends the legal significance of each of these. Clinical testing is not required before a sale can bar patent distributor, and it had not developed a final Bard claims that Radiplast's November

on sale bar inquiry; a sale by a foreign distributor, from a foreign country to the United States can bar patent rights. See, e.g., In re Vaceney, 761 F.24 671, 676-77, 226 USPQ 1, 4 (Fed. Cir. 1985). no moment. Likewise, FDA approval is not required before a sale can bar patent rights. Even an illegal sale of the claimed invention before the critical date can bar patent rights. Nor is a domestic distributor relevant to the possibility of subsequent clinical testing is of ing is merely one possible policy reason why a particular sale might be excused from the bar. Since Radiplast did not contemplate sales to Engström for testing purposes, the excuse a prior sale, if what was offered for sale was the claimed invention. Clinical test-

not, see, e.g., Continental Plastic Containers not, see, e.g., Continental Plastic Products, Inc., v. Owers Brockway Plastic Products, Inc., 141 F.3d 1073, 1078-79, 46 U.S.P.Q.2d 1277, 1281 (Fed. Cir. 1998) (declining to extend exception from public use bar under section 102(b) in design patent case). Operplication of the on sale bar. See, e.g., Barmag Barmer Maschinenfabrik AG v. Murata Machinery, Ltd.: 731 F.2d 831, 837, 221 USPQ 561, 565 (Fed. Ctr. 1984). While operability may or may not be relevant, see, e.g., UMC, 816 F.2d at 656, 2 USPQ2d at 1472 (reduction to practice is not a requirement for application of the on sale bar). " (quoting Paragon Podiatry Lab., Inc. v. KLM Lab., Inc., 984 F.2d 1-182, 1187 n.5. 25 USPQ2d 1561, 1570 n.5 (Fed. Cir. 1993)). Bard has not asserted the second circumsale. See, e.g., Petrolite Corp. v. Baker Hughes, Inc., 96 F.3d 1423, 1427, 40 USPQ2d 1201, 1204 (Fed. Cir. 1996) ("[T] he thrust of the on-sale inquiry is whether the inventor thought he had a prodstance, and as explained below, the alterations made after the offer for sale to Phelps uct which could be and was offered to customers, not whether he could prevail under did not address inventive aspects of the '056 tion had not yet been invented, or the inventors did not know they had a workable invention and thus had nothing to offer for the technicalities of reduction to practice .... ability is relevant only to the extent it demonstrates that a claimed element of the invenmanufacture of an operable device alone is ments - that no operable device had been made — is a feint because manufacture of an operable device is not a prerequisite for ap-The first of Bard's two remaining argupatent's new biopsy needle.

that it had not developed the final design of ström's testimony, as managing director of Radiplast, and correspondence between Rathe biopsy needle - Bard points to Eng-As support for its remaining contention —

after the November 1984 offer for sale to plast's potential distributors in the United States), and Alan Taylor (president of Hart Phelps, and each evidences continued testing generation device and the new biopsy diplast, American Pharmaseal, (one of Radi-Enterprises). Each of these letters was sent of and proposed modifications to the second

and the needle before releasing them to the field trial." As a result of its testing, American Pharmascal recommended: "increas-[ing] the strength of the stylet handle design and add[ing] the buffing operation to can-nula grinding process." Engström testified that this advice was "to, how do you say, make some changes on the plastic parts and report produced after this testing says that Engström testified that American Pharmaseal's research and development laborato-"testing [was] to insure functionality of the spring loaded activatior, the Biopty® device, testified that on American Pharmaseal's advice, Radiplast added a "stop" to the second generation device, after the offer to Phelps. ries conducted in-house testing. A technical also the — what do you call that — well, the, for some plastic parts broke actually, so we put some, a stopper in the second generation device to prevent, if that happened, to prerent the stylet to go further on." Engström Engström also testified that Radiplast

trials. Engström sent a letter to Hart Enterprises on January 15, 1985, which stated. The needle should be changed according to our phone discussion, which means that the wings of the cannula hub should have the same length. Both should be as long as the potential risk for this one snapping back and hurt the doctor's hand." and "many patients from which it learned that "there was a thought the noise of the instrument was very disturbing." As a result, Radiplast added conducted field trials in December 1985, "an automatic retraction, a spring, actually, which took this handle back," and "some damping things, you know, to reduce the noise of the instrument." After these field prises to Engström on January 25, 1985, enclosed three drawings that show "[t]he cannula and stylet hub dimensions are idenical to the drawings and prototype you had shortest wing." A letter from Hart Enter-

inherently less reliable than contemporaneous documentary evidence. Cf. TP Lab., Inc. v. Professional Positioners, Inc. 724 F. 2d 965, 972, 220 USPQ 577, 88 Fed. Cir. 1984) (inventor's expressions of 'subjective intent. particularly after institution of litigation, is generally of mini-\*Reliance on Engström's trial testimony is mal value").

previously received, with the exception that cannula hub wings [sym]metrical."

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This evidence suggests that Radiplast design, adding a buffing operation to the matic retraction via a spring, damping to wing. However, Bard cannot avoid the on sale bar merely by showing improvements to See, e.g., Seal-Flex, Inc. v. Athletic Track and Court Constr., 98 F.3d 1318, 1324, 40 USPQ2d 1450, 1454-55 (Fed. Cir. 1996). These changes must be something more than the '056 patent. While some of Radiplast's changes resulted in different possible embodiments of, or additions to, the new biopsy Bard's confentions, its evidence suggests at the very least that Radiplast had "reason to expect" in November 1984, that its needle modified the second generation device by altering the strength of the stylet handle cannula grinding process, a stopper, autoreduce noise, and equal length symmetrical obvious mechanical adjustments; they have needle that is claimed by the '056 patent, none of the changes are claimed in the text of the '056 patent. Moreover, contrary to cannula hub wings as long as the shortest the invention after its commercialization. to be inventive redesigns that are claimed by "would work for its intended purpose upon completion," Micro Chemical Inc. v. Great Plains Chemical Co., Inc., 103 F.3d 1538, 1545, 41 USPQ2d 1238, 1244, and that Radiplast had more than a mere conception from which it was working towards develop-nient, see UMC, 816 F.2d at 657, 2 USPQ2d

Because Bard's evidence shows nothing beyond unclaimed mechanical adjustments to the needle design claimed in the '056 patent after the November 1984 offer for sale of new biopsy needles, the jury had substantial evidence in support of its finding that the November 1984 offer for sale generated a statutory bar. See. e.g., Robotic Vision Sys., Inc. v. View Eng g. Inc., 112 F.3d 1163, 1167, 42 USPQ2d 1619, 1623 (Fed. Cir. 1997). A contrary view would attribute to the '056 patent additional limitations taken from later developed commercial embodiments. Because the claimed invention had been completed, Engström's new biopsy needle design calls for an outcome different from Robotic Vision, 112 F.3d 1163, 42 USPQ2d 1619 (remanded for further fact software program), Micro Chemical, 103 F.3d at 1544, 41 USPQ2d at 1243 (only a proposed configuration existed and the invention remained to be completed), and Shatterproof Glass, 758 F.2d at 623, 225 finding on the completion date of a computer

48 USPQ2d

USPQ at 640 (a reasonable jury could have found that "apparatus and method of the claims were not functional").

## III. Policy Considerations

and that at its heart lies the inventor's atfered, not the patentee's intent.") In light of the strong policy of preventing exploitation of the commercial value of an invention while deferring commencement of the statunot whether a potential purchaser was made aware of or understood it, discussion of Phelps' actual knowledge of the details of the "We emphasize that this is an objective test, The measure of the bar is what was oftory term, I would affirm the jury's applicainvention or the differences between generations of the biopsy gun is irrelevant. See, e.g., Ferag, 45 F 3d at 1568, 33 USPQ2d at 1516 tempt to commercialize the invention ..... Other than the need for sufficient time to test the new biopsy needle design, which is the policies that underlie the bar focus on the not a policy consideration summoned by the November 1984 offer, Bard has not argued that there are policy considerations weighing against imposition of the on sale bar. Since inventors attempts to exploit the invention, tion of the on sale bar.

# Bryson, J., concurring in part and dissent-

ion upholding the jury's verdict of non-infringement of the '308 patent. I also concur in patent is invalid, and overturning the jury's verdict on the issue of fraud. Accordingly, I join parts II-V, VI.A-B, and VII of Judge he portions of the court's opinion reversing the district court's judgment that the '308 I concur in the portion of the court's opin-

relating to the 056 patent, I agree with Chief Judge Mayer that the 056 patent is invalid under the "on-sale bar" of 35 U.S.C. do not reach the other grounds on § 102(b), although I take a somewhat different analytical path to that conclusion, as discussed below. Because I conclude that the 056 patent is invalid based on the on-sale which the jury found the '056 patent invalid. With respect to portions of the judgment Newman's opinion.

proceedings to determine the proper amount terclaim must be affirmed. Because we do not uphold all of the grounds on which the that the jury may have improperly assessed damages on liability grounds that cannot Finally, Chief Judge Mayer and I agree jury found liability, however, we conclude stand. We therefore must remand for further that the jury verdict on M3's antitrust coun-

of damages to be assessed on the antitrust counterclaim.

support the jury's verdict that the asserted claims of the '056 patent were rendered in June 1985 embodied the invention of the 056 patent. Whether that sale was sufficient to invoke the on-sale bar turns on whether the sale falls within the "experimental purinvalid by a sale more than one year before July 30, 1986, the effective filing date of the patent. It is undisputed that the needles sold With respect to the on-sale bar, I believe that the June 1985 sale of 250 needles from Radiplast to Pharmascal was sufficient to pose" exception to the on-sale bar.

mine the performance and specimen quality Pharmascal sent letters to several hospitals in December 1984 inviting them to participate in a "field trial as a potential sales/dislooking for a company "to distribute and promote the sales of [its] biopsy instruments in the United States." Pharmascal, a potentelex to Radiplast stating that "before any formal purchasing plans can be made," it tial distributor of the instruments, sent a would have to conduct field trials "to deterin the summer of 1984, Radiplast began of your biopsy device and disposable needle. fribution system for Radiplast devices.

"in order to be able to deliver both needles and instruments in beginning of March [1985], we need a [telex] order, preferably this week." It also stated that "we have to instrument in U.S." With respect to Pharmaseal's proposed field trial, Radiplast merely suggested that "if you would like [Dr. Lindgren, the inventor] to visit the hospitals performing the trial, in order to help them large-quantity discounts for batches of up to 50,000 needles. Radiplast's telex stated that meet and discuss more in detail all things related with the marketing of our biopsy 21, 1985, setting a price for the needles to be used in Pharmaseal's field trial and offering Radiplast responded by telex on January get started, he will be happy to help you."

the June 1985 transaction constituted a sale order for 10 biopsy guns and 250 needles from Radiplast. The instruments were shipped in June 1985. It is undisputed that Pharmascal agreed to purchase the instru-ments and, on March 28, 1985, placed an and that the needles sold at that time embodied the invention of the '056 patent.

the devices in July 1985 before releasing the Pharmaseal conducted in-house testing of

products to hospitals for the field trials. Folmanufacturing suggestions, such as recom-mending that Radiplast strengthen the stylet ub design and add a buffing operation to lowing the in-house testing, Pharmaseal reported only minor problems and made minor the cannula grinding process.

Although Bard contends that Dr. Lindaren attended some of the field trials and that Radiplast "was continually advised by Pharmaseal of [their] progress," Dr. Lindgren testified that he did not exercise any control over the tests, that he did not recall ever seeing the instrument used during a test, data from the tests. Bard appears to concede that the test results were not maintained in confidence, and it points to no evidence showing that the primary purpose of the tests was to ensure that the claimed features of the and that he did not receive or maintain any invention would operate as intended.

interest" in the progress of the trials and "was kept informed" of the progress of the field trials. Pharma-The field testing was performed at the 2 Radiplast or the inventor. Pharmaseal "assumed primary responsibility" for the tests, while Radiplast merely "had an ongoing seal and Radiplast continued to discuss market potential, potential prices and volumes. and an instructional videotape to teach propbehest of Pharmaseal, the purchaser, er use of the instruments.

the sale was for experimental testing purposes. The so-called "experimental testing" exception to the on-sale bar applies only if commercial exploitation is "merely incidental to the primary purpose of experimenta-tion to perfect the invention." Barmag Barmer Maschinenfabrik AG v. Murata Mach.. Ltd., 731 F.2d 831, 839, 221 USPQ 561, 567 (Fed. Cir. 1984). In determining stand because the in-house testing at Pharmaseal and the hospital field trials show that Bard argues that the jury verdict cannot whether the inventor made the sale in question for purposes of determining whether the invention would work for its intended purexercised over the testing; the length of the pose, a court must consider various factors, such as the amount of control the inventor test period; whether any payment was made; whether there was a secrecy obligation; whether progress records were kept; whether someone other than the inventor conducted the experiments; and the degree of commercial exploitation during the tests in relation to the purpose of the experimentation. Baker

ing, that detailed progress records be kept, and that the purported testers know that experimental purpose. Lough v. Brunswick Corp., 86 F.3d 1113, 1120, 39 USPQ2d 1100, 1105 (Fed. Cir. 1996) ("if the inventor Oil Tools, Inc. v. Geo Vann, Inc., 828 F.2d 1558, 1564, 4 USPQ2d 1210, 1214 (Fed. Cir. 1987). Certain factors, such as the requirement that the inventor control the testtesting is occurring, are critical to proving he is not experimenting"); see generally 2 Donald S. Chisum, Patents § 6.02[7][c] has no control over the alleged experiments Oil Tools, Inc. v. Geo Vann, Inc.,

test data, and that he did not recall receiving any test results. Radiplast was not aware of the identity of the patients in the field tests, the organs that were being biopsied, or the types of tests being performed; indeed, the patients were apparently not even informed that the biopsies were being conducted as intended as "a potential sales/distribution system for Radiplast devices." There is no perimentation. See Western Marine Elecs. Inc. v. Furuno Elec. Co., 764 F.2d 840, 846, 226 USPQ 334, 339 (Fed. Cir. 1985) (no mary purpose in making the sale to Pharma-seal was to market the patented invention through Pharmaseal, not to conduct tests to would work for its intended purpose. Neither the in-house testing at Pharmaseal nor the field trials at hospitals were conducted under Radiplast; instead, the tests were proposed, controlled, and monitored by Pharmaseal, the purchaser. Dr. Lindgren, the inventor, part of a test. The hospitals participating in evidence that any secrecy agreements were made with Pharmascal, the hospitals, or any of the test participants. Finally, it is undisexperimental use where evidence pointed to determine whether the claimed invention the control or supervision of the inventor or admitted at trial that he had no control over the field trials, that he did not maintain any the field trials were told that the trials were Pharmaseal paid for the instruments and needles used in the tests. All of these factors point away from the conclusion that the sale was made for purposes of ex-The evidence shows that Radiplast's primarket testing rather than experimentaputed that

needles in June 1985, Radiplast had an open offer to sell large quantities of needles to Significantly, at the time of the sale of 250 Pharmaseal at bulk discount prices. The January 21, 1985, telex had offered batches of up to 50,000 needles for a specific price, and smaller quantities of 10,000 and 20,000 ncesuch large quantities of needles was clearly dles for somewhat higher prices. The offer of for comntercial, rather than experimental,

18 USPQ2d

circumstances in Continental are so different from the circumstances in this case, Continental is of no help to Bard. 1269-70, 20 USPQ2d at 1750. Because the

> the needles that were being offered to Pharmascal embodied the later-claimed invention. The bulk purchase offer provides fur-

purposes, and by June 1985 it was clear that

for experimental purposes. See Seal-Flex, fine, v. Athletic Track & Court Constr., 98 F.3d 1318, 1325, 40 USPO2d 1450, 1455 (Fed. Cir. 1996) (Bryson, J., concurring)

her evidence that the June 1985 sale was not

"if the sale or offer in question embodies the invention for which a patent is later sought, a sale or offer to sell that is primarily for commercial purposes and that occurs more

determinative. "A patent owner may have created an on-sale bar despite losing money on a sale." U.S. Envil. Prods. Inc. v. Westall, 911 F.2d 713, 717, 15 USPQ2d, 1898; At any rate, the failure to turn a profit is not sale. Even ignoring any actual profit on the devices used in the field trials, it is clear that marily to develop a market for future sales, not primarily to test the claimed invention. § 102(b) because Radiplast did not make a profit on the transaction. The jury heard testimony, however, suggesting that Radiplast made a 60% profit on the Pharmaseal the Pharmaseal transaction was made pri-Bard also contends that the Pharmascal sale cannot constitute a bar under 35 U.S.C. 1902 (Fed. Cir. 1990).

than one year before the application renders the invention unpatentable"). Thus, it ap-

purpose of preventing its competitors needles from being used in that gun. Bard challenges the sufficiency of the evidence to support the jury's verdict on each of those theories. The panel is unanimous in concluding that the evidence is insufficient to support liability on the Walker Process and "sham litigation" theories. Chief Judge Mayer and I agree, however, that there is sufficient evidence to affirm the jury's anti-trust liability verdict based on Bard's gun modification program, for the reasons set its patents (the Walker Process theory); (2) that Bard acted in bad faith in enforcing its patents (the "sham litigation" theory), and (3) that Bard modified its Biopty gun for the In support of its antitrust counterclaim. that Bard committed fraud in the procuring M3 presented three theories to the jury: (1) forth below.

patent was invalidated by a sale more than one year before the filing date. That conclusion was based primarily on (1) the lack of written progress records and the failure to adhere to a testing schedule; (2) the invena

those in U.S. Environmental Products, Inc. v. Westall, 911 F.2d 713, 15 USPQ2d 1898 (Fed. Cir. 1990). In Westall, this court affrmed a district court's conclusion that a

sale in 1985 any less commercial in nature. The facts of this case are analogous to

tests before distributing the needles to hospitals and doctors. The fact that Radiplast recognized that Pharmaseal intended to test the needles before distributing them in bulk, however, did not make Radiplast's offer and

quantities of needles to Pharmaseal to use in tion to Pharmaseal, which conducted its own

ter-claimed needles commercially at least by late June 1985. Its willingness to sell smaller its field tests was evidently an accommoda-

pears that Radiplast was marketing the la-

tor's failure to maintain control over the testing; and (3) promotion of the invention during the testing. Id. at 717-18. In this case,

ther the in-house tests at Pharmascal nor the field tests at hospitals were under the control of the inventor or his company. There is little

as in Westall, the evidence shows that nei-

verdicts, the jury found that there was a relevant product market for replacement market, and that it had acquired or maintained its monopoly power in that market The jury considered evidence that Bard modified its Biopty gun to prevent its com-petitors' non-infringing, flangeless needles from being used in Bard's guns. By special needles for fully automated reusable biopsy guns, that Bard had monopoly power in that through restrictive or exclusionar, conduct.

> mates for future sales does not otherwise Continental, however, this court noted that

Co. USA. Inc. v. Monsanto Co., 948 F.2d 1264, 20 USPQ2d 1746 (Fed. Cir. 1991), for proposition that providing price estivitiate the experimental testing exception. In no sales were ever made"; there was a joint development project between two companies

ing period emphasized commercial sales and Bard relies heavily on Continental Can

projections, not controlled experimentation.

ords; indeed, the inventor was apparently never provided with any test results. Finally, the communications between Radiplast and Pharmaseal throughout the purported test-

or no evidence of any written progress rec-

to develop the invention; and the project was "cloaked in confidentiality." 948 F.2d at

dence showed that absent patent protection for Bard's devices, M3 could still compete in the relevant market. While the evidence of [13] In order to prevail on its claim of an quired to prove that Bard made a change in the purpose of injuring competitors in the replacement needle market, rather than for improving the operation of the gun. See In re IBM Peripheral EDP Devices Antiruss Litig. 481 F. Supp. 965, 1002 (N.D. Cal. 1979), aff d sub. nom. Transamerica Comuntitrust violation based on Bard's modificacompeting replacement needles, M3 was reits Biopty gun for predatory reasons, i.e., for puter Co. v. International Bus. Mach. Corp., 698 F.2d 1377 (9th Cir. 1983); see generally 4th ed. 1997). Bard argues that the evi-Bard's market power was in dispute, the jury needles. The evidence was sufficient to supits Biopty gun to prevent the use of ABA, Antitrust Law Developments 286-87 specifically found that Bard enjoyed monoppower in the market for replacement port the jury's verdict on that point and also to support the jury's conclusion that Bard maintained its monopoly position by exclusionary conduct, to wit, modifying its patented gun in order to exclude competing replacement needles.

the evidence. Although Bard contended at trial that it modified its Biopty gun to make it easier to load and unload, there was subdocument showed that the gun modifications had no effect on gun or needle performance; another internal document showed that the premise that the modification to Bard's Biopty gun was an "improvement" and arfable for the modification would have the "pernicious" effect of penalizing innovators for making improvements to their products. needles, to make doctors apprehensive about using non-Bard needles, and to preclude the The dissent on this issue starts from the gues from that premise that to hold Bard The dissent's premise, however, is contrary to the jury's verdict, which was supported by stantial evidence that Bard's real reasons for modifying the gun were to raise the cost of use of "copycat" needles. One internal Bard possibly result in injury to either the patient or the physician." In view of that evidence, Bard's modifications to its guns constituted restrictive or exclusionary conduct" in a entry to potential makers of replacement usc of non-Bard needles in the gun "could not market over which it had monopoly power. The dissent also takes issue with the jury jury could reasonably conclude that

instructions, contending that they failed properly to frame a charge of predatory conduct that comports with established criteria of antitrust liability. Because Bard did

Mangren Research & Dev. v. National Chem. Co., 87 F.3d 937, 942 n.3 (7th Cir. 1996); Composite Marine Propellers, Inc. v. Van Der Woude, 962 F.2d 1263, 1265 (7th ever, the legal sufficiency of the jury charge us on appeal. To be entitled to relief based on asserted errors in the court's instructions to the jury. Bard was required to challenge strate that it timely objected to those instruc-tions in the district court. Bard did neither, but instead based its argument entirely on the sufficiency of the evidence. Because the evidence is sufficient to support the verdict not challenge the court's instructions, howon the antitrust issues is not properly before those instructions in this court and demonon the gun modification theory of liability. the jury's liability verdict must stand. See Cir.: 1992).

sarily mean that the jury's damage award of \$1.5 million can be sustained. M3 presented evidence of three different markets (guns, guns and needles, and replacement needles) in which Bard allegedly, caused antifrust of the verdict, however, merely indicated a general award of \$1.5 million without attri-While we affirm Bard's liability on the antitrust counterclaim, that does not necesinjury, and the jury found Bard liable for injury in each market. The damages portion bution to a particular market or exclusionary practice.

modification program was relevant only to have concluded that the evidence concerning Bard's activities in the other two markets the basis of the injury Bard's actions caused to M3 in the replacement needle market. by M3 in the injury replacement needle market. Consequently, we vacate the antiproper amount of damages attributable to the replacement needle market. Because we cannot support antitrust liability, the question arises as to whether the \$1.5 million damages, award can be supported solely on That issue was not briefed on appeal, and the record, so far as we can ascertain, does not provide clear guidance as to the proper allocation of damages due to the injury suffered trust damages award and remand to the district court to consider, after additional hearing or limited retrial, if necessary, the 3ard's gun modification program. See MCI Communications Corp. v. American Tel. & el. Co., 708 F.2d 1081, 1166-67 (7th Cir. M3's evidence concerning Bard's

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to its financial benefit. Additionally, Eliah has been modified in a later case, Louis Marx & Co. v. Fuji Seiko, supra. In Marx the court held the standard for exercising in personam jurisdiction over a foreign corporation to be whether the manufacturer had knowledge of and benefit from the trol over the agent. The added element of Cases cited by Zoo-Techniques against in agent's action and had exercised some conpersonam jurisdiction seem more applicable

control is clearly not present here.

The action will accordingly be dismissed without prejudice. ques has requested or furthered sales in Virginia, although such sales would accrue

Dismissal as opposed to transfer is the relief granted here. The latter is undoubted-ly permissible since the alleged cause of action arose in Massachusetts, and Damon, Vincland and (recently) Zoo-Techniques 514 (4th Cir. 1955). Since the only connection Virginia has with the action is that might be appropriate. However, with a mo-tion to transfer to Virginia pending in Massachusetts, this Court is unwilling to preempt that Court's consideration of the Robins iš a Virginia corporation, a transfer

decide this question, set prices. In the present case Vineland solicits and accepts its own customers and sets its own prices without reference to Zoo-Techniques. to accept or reject solicited customers and ficient nexus between Zoo-Techniques and

actions in Virginia are sufficient to find in

suant to the long-arm statute. 13

"Vincland's action in Virginia pose a question heretolore left open by the Fourth Circuit in inter-preting \$8.01-328.1. In Elefteriou v. Tanker Archoniessa, 443 F.2d 185, 189 (4th Cir. 1971),

personal jurisdiction is obtained pursuant to Virgina's long-arm statute and F. R. Civ. P. +(e), there are "counter-valuing federal policies" to warrant the exercise of personal jurisdiction when the acts granting jurisdiction under section (A) of the court expressed no view as to whether, when motion by transferring the action. to the present situation. In Ajax Realty Corp. v. J. F. Zook, 493 F.2d 818 (4th Cir. 1972), the Fourth Circuit refused to accept an in-state customer at the behest of an in-dependent dealer. While recognizing in personam jurisdiction over a Washington window frame manufacturer whose sole contact with Virginia was to send frames to Virginia's single transaction rule as held in John G. Kolbe v. Chromodern Chair Co., supra, the court found that the shipment did not constitute a single transaction and re-Zoo-Techniques has not even directly shipped to Virginia, making for an even stronger case against personal jurisdiction sacts business in every state in which each of independent distributors deals." 493

furer through jurisdiction over it's exclusive distributor. The fact that the agent was the sole dealer was not the touchstone of per-

sonal jurisdiction but that in performing in that capacity the agent acted only as a con-

duit; the manufacturer retained the power

The Court having found there is insuf-

Vineland to attribute the latter's actions to the former, it is unnecessary to examine the second question as to whether Vincland's personam jurisdiction over Vineland pur-

In PPS, Inc. v. Jewelry Sales Representatives, supra, the court found in personam jurisdiction over a foreign jewelry manufac-

than in Ajax.

the statute do mit give rise to the cause of action as required by section (B). In this case the Virginia activities of Zoo-Techniques, if it is presumed to have acted through its agent Vineland, with respect to the sale of automatic innoculators do the exercise of personal jurisdiction satisfies due process without regard to the requirement imposed by §8.01-28.1(8) However, this Courts disposition with respect to the relationship between Zoo-Techniques and Vineland does not fingement relating to pneumatic innoculators. Therefore the question arises whether, in these circumstances in which federal question subject matter jurisdiction exists under 28 U.S.C. §1331, not give rise to the cause of action for patent inpresent an appropriate framework in which to

have conceded the propriety of venue and their amenability to service there. 28 U.S.C. \$\$| 404(a) and 1406(a). Goldlawr, Inc. v. Heiman, 369 U.S. 463 (1962); Internatio-Rotterdam, Inc. v. Thomsen, 218 F.2d

District Court, District of Columbia

Berghauser v. Dann

Dann, Commissioner of Patents and Berghauser et al.

No. 76-0089 Trademarks

Patent No. 4,153,461 issued May 8, 1979 Decided Mar. 14, 1978

PATENTS

1. Revised statutes 4915 suits (35 U.S.C. 145) — Weight given decisions being reviewed (\$59.30)

Decisions of Patent and Trademark Office tribunals are presumptively correct.

2. Revised statutes 4915 suits (35 U.S.C.

Factual findings of Patent and 145) -- Weight given decisions being reviewed (§59.30)

Trademark Office are to be sustained unless reviewing court is thoroughly convinced 3. Patentability - Evidence of they are erroneous.

Commercial success is evidence of unobviousness.

Commercial success - In general

(§51.4551)

F.2d at 821. In the present case,

4. Patentability - Anticipation - Com-Patentability - Invention bining references (§31.205)

Mere fact that disclosures of references general (§51.501)

tion obvious, unless art also suggests can be combined does not make combinadesirability of combination.

Suggestions of prior art (§51.469) - Evidence of 5. Patentability

Nonobviousness of invention is supported by fact that one skilled in art would not have searched for solution to problem in direction that inventors took.

Particular patents - Printing Plates

Berghauser and Uhlig, Layer Support for Light-Sensitive Material Adapted to be Converted into a Planographic Printing Plate, rejection of claims 6 through 8 revers-

Action by Gunter Berghauser and Fritz James E. Bryan, Alexandria, Va., for plain-Uhlig, against C. Marshall Dann, Commissioner of Patents and Trademarks, for issuance of parent. Judgment for plaintiffs.

be printed.

Joseph F. Nakamura for defendant.

Smith, District Judge.

United States District Court Judge John Lewis Smith. Jr., to United States Magistrate Lawrence S. Margolis as a Pursuant to Rule 53 of the Federal Rules of Civil Procedure, this case was referred by Special Master, to make all necessary findings of fact and conclusions of law with respect to the issues presented.

the Board of Appeals of the United States Patent and Trademark Office, dared November 18, 1975. This decision affirmed the decision of the Patent Examiner which The Plaintiffs, Gunter Berghauser and Fritz Uhlig, seek reversal of the decision of rejected claims 6 to 8 of Plaintiffs' application serial no. 303.515, filed November 3, 1972. As a result of this denial of their application, Plaintiffs seek an award from this Court of a patent containing claims 6 to 8. 35 U.S.C. §145.

The Defendant, C. Marshall Dann, is the Commissioner of Patents and Trademarks of the United States. In capsule, the Defendant claims 35 U.S.C. §103 prohibits awarding a patent on Plaintiffs' application since the claimed invention is obvious in view of the prior art.

Plaintiff contends the United States Patent and Trademark Office fundamentally their application on erroneous misapprehends their invention and has regrounds. ected

A one day trial was held in which two The Defendant presented no witnesses, relying principally on cross-examination and the record before the United States Patent witnesses testified on behalf of the Plaintiffs. and Trademark Office.

The disputed invention relates to a planographic printing plates. The surface of the invention is the reaction product of phusphonic acid, referred to in the record as chemically treated aluminum base used in the manufacture of presensitized the "adhesive," with an anodically produc-ed aluminum oxide layer. Plaintiffs claim their invention exhibits definite advantages over the prior art in that (1) it is less subject to deterioration; (2) its improved surface properties are less conducive to ink "scumproduces a superior printed image; and (4) it permits a larger number of impressions to ming" during the printing process; (3)

claims are obvious in view of the prior art. taken collectively, as evidenced by Uhilig patent no. 3,220,832 (another printing related The Patent Office contends Plaintiffs'

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Berghauser v. Dann

patent awarded to one of the Plaintiffs), Sus et al., Australian patent no. 273,775, and Kirk-Othmer, Encyclopedia of Chemical echnology.

an aluminum base having a surface which is the reaction product of phosphonic ucid with a boehmite layer. Both patents indicate layer of boehmite, prior to coating with phosphonic acid. This base, like the inven-The Uhlig and Sus et al. patents involve the aluminum base can be covered with a tion in dispute, is used in the manufacture of presensitized printing plates.

prior arr, do refer to a boehmite layer which reacts with phosphonic acid. Boehmite is hydrated aluminum oxide and is encompassed by the generic term "aluminum oxide." The Patent Office argues the Kirk-Othmer reference teaches that expressly refer to an anodically produced aluminum oxide layer. However, these two parents, relied on by the Patent. Office as The Uhlig and Sus et al. patents do not boehmite can be produced by anodizing press recitation of "anodically produced" with respect to the formation of the aluminum oxide layer. (Decision of the concludes the only difference between the aluminum; consequently, the Patent Office Plaintiffs' invention and prior art is the ex-Board of Appeals, p. 2).

To the Patent Office, Plaintiffs' invention is obvious since the Uhlig and Sus et al. patents teach the treatment of a boehmite coated aluminum base with phosphonic acid and Kirk-Othmer discloses that boehmite can be produced by anodizing layer so formed in hot water. (Examiner's the oxide aluminum and then quenching Answer pp. 2, 4, 5).

prior art of Uhlig or Sus et al. suggests an anodically produced aluminum oxide layer. Moreover, they argue that since boehmite and aluminum oxide possess completely Whether distinguishing boehmite from aluminum oxide is a distinction without a The Plaintiffs contend nothing in the oxides. To the Plaintiffs, anodically producdifferent chemical properties, citation to one can not be interpreted as reference to the other. In essence, the parties assert opposing interpretations of the significance of these ed aluminum oxide is drastically different from boehmite; to the Patent Office it is not. substantial difference, as the Patent Office contends, or whether these substances are distinctively different, as Plaintiffs assert, is central to this dispute.

### Findings of Fact

1. This is a civil action brought under 35 U.S.C. §145. Plaintiffs, Gunter Berghauser

Republic of Germany, seek reversal of a decision of the Board of Appeals of the United States Parent and Trademark Office which denied their patent application serial no. 303.515, entitled "Aluminum Printing Plate Base Having a Modified Oxidized Surface." (Pl. Ex. 2, p. 2). This instant and Fritz Uhlig, citizens of the Federal application is a continuation application of parent application serial no. 780,597, filed December 2, 1968, now abandoned.

he Commissioner of Patents and Frademarks of the United States. 2. The defendant, C. Marshall Dann, is

3. In a decision dated November 18, 1975. The Board of Appeals of the United States Patent and Trademark Office affirmed the Examiner's decision rejecting, as obvious in view of prior art, claims 6 to 8 in Plaintiffs' application. Claims 6 to 8 were the only claims in the application. \* (Pl. Ex. 2, pp. 15, 71).

tion of Plaintiffs' claims was that they were obvious in view of prior arr. 35 U.S.C. § 103 U.S.C. § 104 Ex. I. pp. 62-63. Pl. Ex. 2, pp. 72-73). The prior arr relied upon by the Patent Office was Uhlig patent no. 3,220,832. Sus et 4. The basis for the Patent Office's rejecal. Australian patent no. 273,775, and Kirk-Othmer, Encyclopedia of Chemical Fechnology.

close an aluminum base used in the manufacture of presensitized printing plates, the surface of which is the reaction 5. The Uhlig and Sus et al. patents disproduct of phosphonic acid with a boehmite layer.

was cited as part of the prior art relied upon by the Patent Office in rejecting the Plain-tiffs application. (Def. Ex. 1A, p. 61). The Uhlig patent and the Sus et al. patent inmanufacture of presensitized printing plates. The surface of this aluminum base is 6. One of the Plaintiffs, Fritz Uhlig, is the patentee of U.S. patent no. 3,220,832, which coated with a layer of boehmite and treated an aluminum base used in the with phosphonic acid. The reaction product volve

6. An aluminum base, for use in the manufacface which is the reaction product of polyvinyl phosphonic acid with an anodically produced aluminum oxide layer having a thickness in the range of about 0,0002 to 0,01 mm. ture of presensitized printing plates, having a sur-· The claims read as follows:

cluding a light-sensitive layer on the surface.

3. An aluminum base according to claim 7 in which the light-sensitive layer contains a compound selected from the group consisting of diazo and azido compounds.

An aluminum base according to claim 6 in-

of the phosphonic acid with the boenmite 5, lines coating forms the surface of the base. (Def Ex. 1C, Col. 2, lines 3-10; Col. 5, 70-75; Def. Ex. 1D, p. 3, lines 5-19).

(Tr. 56). It falls within the generic term "aluminum oxide" (Tr. 62). However, there which fall within the generic term "aluminum oxide." (Tr. 62). are a number of different aluminum oxides Boehmite is hydrated aluminum oxide.

an anodically produced aluminum oxide layer. This layer differs significantly from boehmite, another form of aluminum oxide. (Tr. 34-35, 51). Plaintiffs' anodically 8. Plaintiffs' invention involves the use of produced aluminum oxide is hard (Tr. 30). non-crystalline, and anhydrous. (Tr. Boehmite is hydrous (Tr. 35, crystalline, and soft. (Tr. 35).

9. Boehmite cannot be produced anodically, unlike aluminum oxide. (Tr. 123, 124, 127, 132). Boehmite can be created by dipping aluminum into hor water. (Tr. 132).

et al. patent alludes to a hot water treatment. (Def. Ex. 1D, p. 3, lines 16-19). 10. The Uhlig patent does not disclose the process through which boehmite layers are formed on the aluminum base. The Sus

11. The Uhlig and Sus et al. patents differ from the Plaintiffs claims. These two patents make no express reference to an anodically produced aluminum oxide layer. (Tr. 79-80, 121-123).

This difference is significant (Tr. 79), although boehmite and aluminum oxide are both oxides. (Tr. 34-35).

"anodically produced aluminum oxide layer." Boehmite cannot be produced anodically. (Tr. 123-124). Kirk-Othmer et al., read in light of Kirk-Othmer, do not fall within the Plaintiffs' claim of an The boehmite layers in Uhlig and Sus does not indicate that boehmite can be produced anodically. (Tr. 70-75). Neither the formation of an anodically produced does the Kirk-Othmer reference suggest that aluminum oxide layer may be used in making a printing plate. (Tr. 55, 58-59, 71-75).

the anodic formation of aluminum oxide in The Sus et al. patent does not suggest its reference to anodic cleaning of aluminum. (Tr. 51-54).

14. The Uhlig patent's reference to electrolytic roughening of the aluminum base does not suggest the anodic production of similarities are only superficial. (Tr. 40). aluminum oxide. (Tr. 36-40), processes are essentially different.

to bochmite do not fall within the language The references in Uhlig and Sus et al.

layer has no effect on the length of a printing run of Plaintiffs plates. (Tr. 102-104). A large amount of boehmite on Plaintiffs' greatly reduces the length of a printing run of Plaintiffs plates. (Tr. 104-105). of Plaintiffs' claims even though boehmite tiffs' anodically produced aluminum oxide falls within the generic term "aluminum oxide." A small amount of boehmite on Plainanodically produced aluminum oxide layer

16. Plaintiffs' anodically produced oxide laver is an essential feature of the invention. (Tr. 106). 17. Plaintiffs' combination of phosphonic cing the developability of the plate. (Tr. 36-37, 117-118) acid with an anodically produced aluminum oxide layer unexpectedly resulted in enhan-117-118). 36-3

anodized aluminum base reacted with phosphonic acid enjoy an unexpectedly im-proved shelf life, as opposed to plates in which an anodized aluminum base is not treated with phosphonic acid. (Tr. 35-36, 94-101). The shelf life test is one indication 18. Printing plates using Plaintiffs of the ease and speed of developability. (Tr.

superior to that disclosed in the Uhlig patern. (Tr. 104-108). For example, with Plaintiffs alleged invention the length of a printing run is about 33,000 prints whereas the printing run for the prior art is only about 2,000 prints (Pl. Ex. 10); 33,000 19. The present invention is quite about 2,000 prints (Pl. Ex. 10); 33,000 prints with Plaintiffs alleged invention as opposed to 1,000 prints for the prior art (Pl. Ex. 11); and 34,000 prints with Plaintiffs alleged invention versus 7,000 prints for the prior art. (Pl. Ex. 13).

20. Plaintiffs' invention has enjoyed significant commercial success. (Pl. Ex. 3). The present invention is unexpectedly superior to the prior art. (Tr. 112-115).

### Conclusions of Law

üvely correct. Fields v. Schuyler, 133 U.S. App. D. C. 229, 230; 472 F.2d 1304, 1305. 175 USPQ 514, 515 (D. C. Cir.), cert. denied, 411 U.S. 987, 177 USPQ 673 [1] 1. The decisions of Patent and Trademark Office tribunals are presump-(1973).

Commissioner of Patents, 436 F.2d 296, 297, 168 USPQ 17, 18 (D. C. Cir. 1970). [2] 2. Factual findings of the Patent and Trademark Office are to be sustained unless the reviewing court is thoroughly convinced they are erroneous. Pro-Col Corporation v.

3. The decision of the Board of Appeals of the U.S. Patent and Trademark Office is clearly erroneous because of its emphasis on General Mills Fun Group, Inc. v. Tuxedo Monopoly, Inc.

OHSIN ME

The statement of the Board of Appeals is not relevant to the present invention.

obvious in producing the boehmite layer using the teachings of Kirk-Othmer. The claimed structure would clearly result." "Since both Uhlig and Sus discloses that aluminum support may be provided with a boehmite layer, we see nothing un-(Pl. Ex. 2, p. 72)

### is clearly erroneous.

- 5. Plaintiffs' invention is novel, useful, and unobvious.
- Plaintiffs' invention produces unexadhesion of the image areas to the support and improved ease of developability, when Plaintiffs' invention exhibits improved pected results in view of prior art.
- [3] 8. Commercial success is evidence of unobylousness.

one skilled in the art would expect

developability to be more difficult.

- the desirability of the combination. Application of Imperato, 486 F.2d 585, 587, 179 USPQ 730, 731-732 (C.C.P.A. 1973). [4] 9. The mere fact that disclosures of references can be combined does not make the combination obvious. The combination is not obvious unless the art also suggests Nothing in the prior art cited by the Patent Office suggests the desirability of combining the references relied upon in this case.
  - invention is supported by the fact that one for the solution to the problem in the direction which the inventors took. White v. Mar-Bel. Inc., 509 F.2d 287, 291, 185 10. The nonobviousness of Plaintiffs. skilled in the art would not have searched USPQ 129, 131-132 (5th Cir. 1975).
    - The Plaintiffs are entitled to the grant of a patent containing claims 6 to 8 of their application serial no. 303,515, filed November 3, 1972.

### Trademark Trial and Appeal Board Patent and Trademark Office

General Mills Fun Group, Inc. v. Tuxedo Monopoly, Inc. Decided Nov. 29, 1979

## TRADEMARKS

### 1. Opposition - Pleading and practice (§67.589)

122(b), status and title copies of its pleaded registrations proves registrations' existence Record of opposer that ordered and made record, pursuant to Trademark Rule and ownership.

applicant's adoption of its mark are of no

7. Identity and similarity - How determined - Doubt against newcomer Doubts as to likelihood of confusion must be resolved against newcomer and in lavor

(§67.4067)

similar mark by another.

6. Identity and similarity - In general Facts and circumstances surrounding particular significance if result is mark that.

(\$67.401)related goods.

from using same or similar mark for like or

### 2. Opposition - Pleading and practice (\$67.589)

Opposer has burden of persuading Trademark Trial and Appeal Board by fair use of mark on its goods is likely to cause confusion in view of opposer's previously preponderance of evidence that applicant's used and registered identical mark for its

# 3. Evidence - Judicial notice (§36.20)

#### - Descriptive - Misdescriptive or not descriptive - Particular marks Marks and names subject to ownership (§67.5078)

Trademark Trial and Appeal Board takes udicial notice that "famous" marks are such as clothing, glassware, trash cans, and pillows, that are unrelated in nature to those goods on which marks are normally used frequently used on certain types of items, "Monopoly" is in category of famous marks, for board game.

### 4. Class of goods - In applications to register (§67.205)

normal channels of trade for goods of that type, and that they are available to all purchasers of such goods, when identification of goods in application does not contain Presumption for purposes of opposition proceeding is that applicant's goods include any limitations as to these matters, as there items in low and middle as well as upper is nothing to preclude applicant from expanding its trade channels to include department stores and other similar outlets should economic or other factors dictate a need for price ranges, that they move through al such change.

Certificate of registration of mark upon

Nims, Howes, Collison & Isner, New York, N.Y., for General Mills Fun Group, Inc. Virginia R. Richard, New York, N.Y., for 'uxedo Monopoly, Inc. evidence under Lanham Act Section 7(b) of

Before Rice, Fowler, and Kera, Members.

registrant's exclusive right to use mark in commerce in connection with goods specified in certificate, and to exclude others

Principal Register constitutes prima 5. Registration - Effect (§67.747)

## Rice, Member

tion to register the trademark "MONOPOLY" for men's, women's and blouses, sweaters, jackets, shirts, slacks, shoes, belts, pantyhose and socks.' dresses, skirts, coats, scarves, pantsuits, - namelv. Tuxedo Monopoly. Inc. filed an applicaapparel children's wearing

holding same for use in the play of games; a wide and favorable reputation for the goods sold under the "MONOPOLY" mark; celebrity of the "MONOPOLY" mark as a estate trading game by its predecessor and itself; ownership of registrations of "MONOPOLY" for equipment comprising ing a real estate trading game, and for toy money and racks and tills suitable for symbol of a valuable goodwill; the use of "MONOPOLY" by licensees on rugs. which alleged prior and continuing use of the trademark "MONOPOLY" for a real a board and movable pieces for use in playglassware, ice buckets, trays and giftware; cluding clothing and fabrics for clothing; the opposer's and applicant's goods through the same stores and the advertising thereof through the same media; sales to the same customers; an identity of the parties' marks; and a likelihood that applicant's mark is likely to cause purchasers to believe sored or endorsed by opposer, to the latter's Registration of the mark has been opthat applicant's goods are made for or sponposed by General Mills Fun Group, Inc., The receipt of numerous requests damaye. sale of when applied to applicant's goods, conflicts with prior use and/or registration of same or and for board game played with movable pieces is likely to cause confusion. Class of goods - How determined -Emanating from same source Opposition - Mark and use of op-Opposer is not entitled to right in gross in its mark, which would be contrary both to

Use of "Monopoly" for wearing apparel

9. In general (§67.01)

8. Class of goods - Particular cases -

of prior user.

Similar (§67.2073)

Applicant admitted the issuance of the two registrations pleaded by opposer and prior to July 26, 1972 but denied the rest of the allegations in the notice of opposition. In that it did not use its mark in pleaded additton, applicant

defenses of unclean hands, trademark mis-

ficient to support inference that purchasers encountering applicant's goods bearing its mark would be likely to mistakenly assume that applicant's goods are in some way con-

nected with opposer.

ditions or circumstances exist that are suf-

poser where record shows that special con-

subsequent user of same or similar mark for goods distinctly different from those of op-

established principles of trademark law and Lanham Act Section 2(d); upposer is entitled to protection against registration by

poser — In general (§67.5831)

57,732. by

opposition No.

Trademark

General Mills Fun Group, Inc., against Tuxedo Monopoly, Inc., application. Serial No. 431,254, filed July 31, 1972. Opposition sustained; Kera, Member, dissenting with

ing first use on or about July 26, 1972.

Reg. No. 326,723, issued July 30, 1935 to a predecessor and assigned: Invice renewed: republished under §12 (C). affidavit under §3 accepted; affidavit under §15 received.

' Reg. No. 338,834, issued Sept. 15, 1936 to a. Serial No. 431,254, filed July 31, 1972, claim-

predecessor and assigned; twice renewrd; republished under \$12(c); affidavit under \$8 accepted; affidavit under \$15 received.

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ACS Hospital Systems, Inc. v. Montefure Hospital

Court of Appeals, Federal Circuit

action does not "arise from undertakings commenced before January 1, 1978", both the photographs and the infringement occurred after that date. Finally, these photographs do not involve any activities specified in 18 U.S.C. §106. Therefore, the parties respective rights are governed exclusively by the Photographs are a subject matter protected U.S.C. §§101 & 102(a)(5). The cause of explicitly by the Act in section 102. See 17 Copyright Act.

provisions of the Act. This argument is The Act, as I discussed in detail in my made for hire" prior opinion, establishes the validity of plaintiff's copyright. Defendants have argued at length that plaintiff's copyright is uncerthe validity tain because of the "work

[3] First, the photographs do not fall into either category of "works made for hire."

pared by one person upon the special order or commission of another, it will not qualify as a work made for hire, with the special legal consequences which flow from this designation.

W. NIMMER, NIMMER ON COPY-RIGHTS \$5.03 [B[C]][a] (1982). Defendants apparently admit that plaintiff's rights are not governed by the work for hire provisions. See 'If a work does not fall within one of the (statute's) categories then even if it has been preerned by the work for hire provisions. See Defendants Notice of Motion at 9-10. Rather,

provision did apply, because plaintiff would be an independent contractor, there would fer of his copyright to his subjects. See 17 U.S.C. §101. Plaintiff has stated in a sworn In such circumstances, copyright ownership is that there is no such writing or transfer. In the absence of defendants, putting facts into issue, therefore, the granting of plaintiff's summary judgment moaffixed in the author.2 Second, even if the have to be some writing evidencing the transtion was appropriate and is upheld any actual affidavit

pher is the "author" of the photograph. Moreover, their speculation that there could be some kind of "joint" authorship has no evidentiary support. Defendants cannot dispute that the photogradefendants principally argue that the common law governs herein. As I have discussed above, however the 1976 Act's provisions are exclusive in this area.

found, those inferences that are necessary to support ultimate finding that patent is not infringed; in this endeavor CAFC does not itself find those facts that trial court failed to set out for it; as appellate court, CAFC facks normally be vacated and action remanded for appropriate findings to be made; where full understanding may be had without aid of to that general rule is recognized; ultimate trial court, or as affirmed on appeal, rests on same underpinnings, that is, necessary subsidiary facts, supported by evidence of record, ultimate finding as well as subsidiary findings power to perform that exercise; where trial court fails to make findings, judgment will separate findings, however, narrow exception finding of fact in case, whether initially by that lead to ultimate finding; where district court has not misapplied controlling legal standards in its evaluation of evidence. Bur-٤ ACS-Hospital Systems, Inc.

## 7. Costs - Attorney's fees (§25.5)

Court of Appeals for the Federal Circuit - Weight given decision reviewed (§26.59)

Prevailing accused infringer must establish that trial judge abused his discretion in regard to accused infringer's motion for attorney fees, not merely that trial judge committed clear error, in order to prevail on cross appeal on that issue.

### Particular patents - Television Switches

4,133,057, Sonnenberg, Actuating System for a Rental Television, holding of invalidity noninfringement ō holding reversed: affirmed. Appeal from District Court for the Western District of Pennsylvania, Dumbauld, J.: 220 USPQ 731.

Action by ACS Hospital Systems, Inc.

against Montefiore Hospital, and Wells National Services Corporation, for patent infringement. From judgment for defendants, but denying attorney fees, both parties appeal. Modified

"joint" authorship has no evidentiary supports are. See Exxon Corp. v. Federal Trade Commission, 663 F.2d 120, 128 (D.C. Cir. 1980) ("It is not the intent of Rule 56 to preserve purely speculative issues of fact for trial " " "").

v. Monteñore Hospital et al. Nos. 83-1121 and 83-1132 Decided Apr. 27, 1984

den of proof - Validity (§53.138) 1. Pleading and practice in courts

PATENTS

Presumption from patent grant --general (§55.1)

Presumption of validity is never annihilated, destroyed, or even weakened, regardless of what facts are of record; rather it is clear statutory procedural device that assigns to party asserting invalidity burden of proving invalidity; burden of persuasion is, and remains always, on parry asserting invalidity. 2. Construction of specification and claims Construction of specification and claims - In general (§22.01)

pends, is subject to review on appeal under

clearly erroneous standard of

upon which ultimate finding necessarily de-

52(a); record is examined in order to review

trial court's judgment, and findings it made or necessarily had to have made to support that

judgment and, thus, to conclude controversy

expenditure of judicial resources, if at appellate stage without unnecessary fur-

possible

FedRCivP

Claims are to be read and construed in - By specification and drawings -To save claim (§22.257)

light of specification and prosecution history patent; further, claim should be so construed, if possible, as to sustain their validity.

3. Construction of specification and claims In general (§22.01)

Claim construction is question of law.

Patentability - Anticipation - Combining references (§51.205)

ciaimed invention, absent some teaching or of references can be combined only if there is bining teachings of prior art to produce suggestion supporting combination; teachings some suggestion or incentive to do so, under Obviousness cannot be established by com5. Infringement - Tests of - Comparison with claims (§39.803)

claims, not on basis of comparison with patentee's commercial embodiment of claimed Infringement is determined on basis of invention. 6. Court of Appeals for the Federal Circuit — Weight given decision reviewed (§26.59)

findings and is forced to draw from facts CAFC is confined to trial court's limited

asserting invalidity the burden of proving

invalidity.

A patent shall be presumed valid. \* \* \*

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Frank J. Benasutti, Philadelphia, Pa., for appeilant.

ryl Mexic, Washington, D.C., on the brief) David J. Cushing, Washington, D.C. (Darfor appellees. Before Miller and Smith, Circuit Judges, and

Smith. Circuit Judge.

berg patent), invalid as obvious under 35 U.S.C. §103 (1976) and not infringed. Montefiore Hospital and Wells National Service The judgment is reversed with respect to Corp. (Wells) cross-appeal from the district In this patent case, ACS Hospital Systems, Inc. (ACS), appeals from a judgment of the U.S. District Court for the Western District of Pennsylvania holding U.S. patent No. 4,183,057, issued to Sonnenberg (the Sonnendenial of their motion for attorney invalidity and affirmed with respect to noninpeal from the denial of attorney fees, the fringement. With respect to Wells' cross-apjudgment is affirmed.

#### Background

actuating switch, an override switch, and a signal light to indicate that the override switch has been actuated. When the key switch is in the "on" position, the television operates normally. For rental use, the key minated, signaling that the television has been television system comprising a key operated operator. In order to rent the television, the viewer depresses the override switch which enables the television to operate normally without the necessity of turning on the key operated switch. When the override switch has been activated the indicator signal is illu-ACS's Sonnenberg patent claims a renta switch is placed in the "off" position by a key rented. Claim 1 is representative:

A television system constructed for rental use, the television system comprising:

actuating means including a key op-erated switch switchable between an off position for preventing normal operation of the television and an on position for enabling the television to be operated;

override switching means capable of being switched from a normal

indicating means for providing an and enabling the television to be operated; and said override switching means when switched switched into its on position; and indicating signal when said override switching means has been operated switch remains in said position for overriding said key into Š switched position.

#### Validity

to apply the standards articulated in Graham v. John Deere Co. ' in determining the issue of validity. In concluding that the Sonnenberg trict court relied on override switches generally and ACS's 'COMPU-TEL" fully auto-While the trial court's opinion deals predominantly with infringement, the court purported Sonnenberg patent invalid under section 103 patent is invalid under section 103, the dismated television rental system as prior art.

of switches by providing an alternative path for current to actuate an appliance is a comattempt by ACS to "monopolize all systems of statutory presumption [of validity] of U.S.C. 282 is entirely annihilated by presumption [of validity] indisputable facts in the record."

validity is incorrect as a matter of law. The or even weakened, regardless of what facts trial court's treatment of the presumption of presumption is never annihilated, destroyed, are of record. Rather, it is a clear statutory procedural device which assigns to the party <sup>1</sup> Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966). Stratoflex, Inc. v. Aeroquip Corp., 713 F.2d 1530, 1534, 218 USPQ 871, 875-76 (Fed.Cir. \* The Honorable Edward D. Re, Chief Judge, United States Court of International Trade, sitting by designation.

position to an actuated position switch when in its off position in to [sic] its actuated position actuated

number of opinions addressing the analysis of obviousness under section 10° and those opinions provide a comprehensive guide to analysis. We hold that the trial court's analy-

sis of obviousness is inadequate under Graham to sustain a holding of invalidity un-

This court has in recent months issued a

Section 103

The trial court held the claims of the

monly practiced technique well known in the art prior to Sonnenbeg's patent." It held that his claim 1 is therefore invalid as obvious. The trial judge adopted Wells' expert's description of ACS's COMPU-TEL system and held the Sonnenberg patent invalid as an enabling a hospital patient to view television The court below stated that "the overriding phasis in original.) He commented that "[t]he

## Presumption of Validity

As an initial matter, we hold that the

der section 103. However, the trial court's opinion contains surficient findings of fact, supported in the record, to enable us to review the conclusion below that the Sonnenberg patent is invalid. The burden of establishing invalidity of a patent or any claim thereof shail rest on the

## Scope and Content of the Prior Art.

In determining the scope and content of the system was within the prior art under section 102(g). The district court did not in its opinprior art, the trial court found that override switches generally were well known in the art. It also found that ACS's COMPU-TEL ion rely on any other prior art reference in determining whether the claimed invention would have been obvious under section 103

The district court's holding of invalidity has been shown, on the entire record, to have been reached on the basis of both clearly

erroneous findings of fact and misapplication

The burden of persuasion is, and remains always, on the party asserting invalidity 1 In

party asserting such invalidity.

the present case this error is not harmless.

nenberg patent as prior art. Further, the parties refer to the "Western New York Hospital" rental television system as prior art. While the trial judge made no mention in his Five U.S. patents are cited in the Sontute prior art relative to the Sonnenberg patent. We hold that the trial court's limited errors, however, have not been shown to have influenced the trial court's judgment in this opinion of these additional references, on the basis of the record before us, they each consticase and, accordingly, we consider them assessment of the prior art was clearly erroneous in that the court below failed to find that these additional references are within the scope and content of the prior art. These harmless. 35 U.S.C. §382 (1976).

Stevenson v. U.S. Int'l Trade Comm'n, 612
F.2d 546, 531, 130 USPQ 276, 231 (CCPA 1979);
Soider Removal Co. v. U.S. Int'l Trade Comm'n, 582 F.2d 628, 612-33, 199 USPQ 129, 132-33 (CCPA 1978). See also Connell v. Sears, Roebuck & Co., 722 F.2d 1542, 220 USPQ 193 (Fed.Cir. 1983); Meditronic, Inc. v. Cardiae Paternakers, Inc., 721 F.2d 1563, 220 USPQ, 97 (Fed. 1963).

#### Differences.

1983); Meditionic, Inc. v. Carvair, C. Fed. Inc., 721 F.2d at 1563, 220 USPQ 97 (Fed. Cir. 1983); Stratoffex, 713 F.2d at 1534, 218 USPQ Cir. 1983); Stratoffex, 713 F.2d at 1534, 218 USPQ Cir. 1983); Stratoffex, Cir. Per

at 875-76; Kalman v. Kimberly-Clark Corp., 713 F.2d 760, 773-74, 218 USPQ 781, 790 (Fed. Cir. Cf. Medtronic, 721 F.2d at 1566, 220 USPQ (errors in decisional approach considered

harmless). at 99

With respect to the differences between the claimed subject matter and the prior art, the COMPU-TEL system contains every feature of claim 1. Hence, the court below found no significant differences between the claimed district court gave claim 1 of the Sonnenberg subject matter and the prior art. We hold that finding to be clearly erroneous. In addition, patent an extremely broad construction. It adopted the opinion of Wells' expert that the that finding reflects an erroneous construction of the claims. "In re Sernaker, 702 F.2d 989, 217 USPQ 1 (Fed. Cir. 1933); Orthopedic Equip. Co. v. United States, 702 F.2d 1005, 217 USPQ 197 F.d. Cir. 1983); Orthopedic Equip. Co. v. All Orthopedic Appliances, Inc., 707 F.2d 1376, 217 USPQ 1281 (Fed.Cir. 1983); Chore-Time Equip. Inc. v. Cumberland Corp., 713 F.2d 774, 218 USPQ 673 [Fed. Sir. 1983); Carl Schenck, A.G. v. Nourton Corp., 713 F.2d 782, 218 USPQ 698 (Fed.Cir. 1983); Environmental Designs, Lid. v. Union Oil Co., 713 F.2d 693, 218 USPQ 689 (Fed.Cir. 1983); Lanconder, 218 USPQ 865 (Fed.Cir. 1983); Strato-New, 713 F.2d 1530, 218 USPQ 871.

The trial court in its discussion of obviousness, rather than ascertaining the differences between the claimed subject matter and the prior part, focused on the differences between

467, provides, in pertinent part:
... {Section} 103 \* \* \* lends itself to several

basic factual inquiries. Under \$103, the scope and content of the prior art are to be determined; differences between the prior art and the claims at issue are to be ascertained; and the level of ordinary

skill in the pertinent art resolved. Against this background, the obviousness or nonobviousness of

considerations as commercial success, long felt but unsolved needs, failure of others, etc., might be

the subject matter is determined. Such secondary utilized to give light to the circumstances surround-

ing the origin of the subject matter sought to be patented. As indicia of obviousness or nonolyrious-

ness, these inquiries may have relevancy.

Norris, U.S. patent No. 2356,474; Townsend,
U.S. patent No. 3,188,384; Sargent, U.S. patent
No. 3,335,42; Daniel, U.S. patent No. 3,335,42; Janiel, U.S. patent No. 3,386,302.

the Wells and the ACS systems. In so doing, it adopted Wells' expert's explanation of the differences between claim 1 and the Wells

fringement, not validity. We conclude that the trial court erred in adopting Wells' expert's Differences between the prior art and the record. First, while override switches are used ples of override switches cited by the district

interpretation of claim

invention are apparent from the

in a wide variety of applications, the examcourt are not relevant to the claimed subject matter as a whole — television rental sys-

differences relating to literal in-

ACS Hospital Systems, Inc. v. Montepore Hospital

level of ordinary skill in the art as that of a layman. That finding has not been shown to be clearly erroneous. The court made no findings with respect to secondary

reflects an extremely broad construction of the claims. Contrary to the district court's construction of the claims, the Sonnenberg under his own power without the aid of an ignored express claim limitations governing a hospital patient to view television normally attendant." (Emphasis in original.) The court patent does not claim "all systems of enabling the function of the switching means.

tems. The district court made no attempt in

its opinion to identify the differences between the override switching examples that it cited Second, the record discloses that COMPU-TEL is a fully automated television rental system whereas the claimed invention in-

and the claimed subject matter.

[2,3] Claims are to be read and construed

both exhibit certain switching elements, the functions of the switching elements in the two systems are different. The fully automated operation of the COMPU-TEL system does

volves human monitoring and control. While COMPU-TEL and the claimed invention

system functions to actuate the television as well as to initiate billing. The override switching means claimed in the Sonnenberg

patent, on the other hand, functions to provide an alternative current path to the locked

not involve overriding a locked key switch. The patient switch in the COMPU-TEL

did not discuss also differs significantly from the claimed subject matter. The five patent

references cited in the Sonnenberg patent involve a variety of lock, metering, and control

Third, the prior art of record that the court

key switch and to actuate the indicator light.

combination, would have disclosed or suggest-

systems. None of them, however, employs an override switching mechanism to overcome a key operated actuating switch. The Western New York Hospital system involves a three

from the claimed subject matter in that it too

does not employ override switching means.

position key switch. Yet, that system differs

Hence, we hold the trial court's assessment, that there are no differences between the claimed subject matter and the prior art, was Level of Ordinary Skill and Secondary Considerations. (1864).

ordinary skill in the art. The trial court's analysis, however, clearly indicates that the We interpret the court's findings as fixing the with respect to the level of Additionally, the court below made no exlevel of skill was considered to be quite low. press finding

As noted above, the trial court's opinion Claim Construction. considerations.

should be so construed, if possible, as to in light of the specification and the prosecu-tion history of the patent.<sup>10</sup> Further, claims sustain their validity." Applying these principles, the claims of the Sonnenberg patent should be given a far more limited construction than that given by the district court in holding the claims invalid. The claims are ing means function to override a key switch when in its "off" position, enabling the televi-sion to operate normally. The Sonnenberg patent does not claim "all" hospital rental tendant. Claim construction is a question of law.12 We hold that the trial court's construction of the claims is incorrect as a matter of systems capable of operation without an atlimited to a system in which override switch.

Obviousness.

Turning now to the determination of obviousness under section 103, we conclude that none of the references, either alone or in

"Carman Indus, Inc. v. Wahl, 724 F.2d 932, 937., 520 937., 937. o. 1989); William S. S. Gred, Cir. 1983); Kidein v. Russell, 36 U.S. 433, 466 (1874); Turrill v., Michigan S. & N.I. R.R., 68 U.S. 491, 510 <sup>a</sup> Fromson v. Advance Offser Plate, Inc., 720 Ed. 1556, 1570-71, 219 USPQ III7, 1404-14 (Fed.Cir. 1983); Auogiro Ca. v. United Saates, 384 F.2d. 391, 397-99, 155 USPQ 697, 702-04 (Ct. Ct.

Autogiro, 384 F.2d at 397-99, 155 USPQ at 702-04; LaSalle v. Carlton's Laydown Serv., Inc., 680 F.2d 432, 216 USPQ 276, 65th Cir. 1982). Studiengesellschaft Kohle mbH v. Eastman Kodak Co., 616 F.2d 1315, 206 USPQ 577 (5th Cir.), cert. denied, 449 U.S. 1014, 208 USPQ 88 (1980).

er than with the claims of the Sonnenierg patent. Infringement is determined on the system with ACS's commercial product, ratinbasis of the ciaims, not on the basis of a ed to one of ordinary skill in the art the use of pears to be no more than hindsight reconstruction of the claimed invention. The court override switching means in a television rental system. The trial court's heavy reliance on below identified no source, other than the Sonnenberg patent itself, for the suggestion to use override switching means in a television the widespread use of override switches aprental system.

combining the teachings of the prior art to produce the claimed invention, absent some erences can be combined only if there is some have been obvious to one of ordinary skill in [4] Obviousness cannot be established bv Under section 103, teachings of refsuggestion or incentive to do so." The prior tion or incentive. Accordingly, we hold that the court below erred as a matter of law in concluding that the claimed invention would teaching or suggestion supporting the combi-nation. Under section 103, teachings of refart of record fails to provide any such suggesthe art under section 103.

#### Infringement

Once again adopting the testimony of Wells' expert, the court below found that "the Wells system does not contain the element of over-riding a locked switch." The district court The trial court found that the Wells system does not infringe the claimed invention, either literally or under the doctrine of equivalents. tem and the Wells device with respect to the also found differences between the ACS sysswitch as well as with respect to the indicator mechanism and circuitry of the

ed to a specific switching mechanism or to specific indicator light circuitry. The district support a finding of no infringement. The claims of the Sonnenberg patent are not limitcourt appears to have compared the Wells [5] These latter findings, however, will not

Findcomparison with the patentee's commercial embodiment of the claimed invention. pounds the difficulty of appellate review, particularly in view of the complexity of the ings of fact are to be construed liberally in support of a judgment. Confined to the trial court's limited findings, we are forced to draw from the facts found those inferences that are more comprehensive findings of fact comnecessary to support the ultimate finding that the Sonnenberg patent is not infringed by In this endeavor we are not ourselves findtechnical subject matter of this appeal. [6] The district court's failure to

action remanded for appropriate findings to be made.16 Where a full understanding may however, we recognize a narrow exception to that general rules."

The ultimate finding of fact in a case, ing those facts which the trial court failed to set out for us. As an appellate court, we lack the power to perform that exercise. Where the trial court fails to make findings, the judgment will normally be vacated and the be had without the aid of separate findings,

whether initially by the trial court, or as supported by evidence of record, that lead to that ultimate finding. Where the district court dards in its evaluation of the evidence, its and the findings it made or necessarily had to affirmed on appeal, rests on the same underpinnings. i.e., the necessary subsidiary facts, has not misapplied the controlling legal stanuttimate finding as well as the subsidiary findings upon which the ultimate finding necpeal under the clearly erroneous standard of Fed.R.Civ.P. 52(a).4 We examine the record in order to review the trial court's judgment, thus, to conclude the controversy at this stage without unnecessary further expenditure of essarily depends, is subject to review on aphave made to support that judgment and judicial resources, if possible.

### The Sonnenberg Claims.

The Sonnenberg patent claims a rental relevision system having key operated actuat-

to §102(b) rejections): Corometries Medical Svs., Inc. v. Berkeley Bio-Engineering, Inc., 193 USPQ 467, 475 (N.D. Cal. 1977).

"In re Rinehart, 531 F.2d 1048, 189 USPQ

USPQ at 199; cf. In re Samour, 571 F.2d 559, 563, 197 USPQ 1, 4 (CCPA 1978) (noting the rule in

the §103 context and declining to extend that rule

13 Orthopedic Equip. Co., 702 F.2d at 1012, 217

143 (CCPA 1970); In re Regel, 526 F.2d 1399, 188 USPQ 136 (CCPA 1975); In re Avers, 518 F.2d 1284, 186 USPQ 161 (CCPA 1975); In re Imper-ato, 486 F.2d 885, 179 USPQ 730 (CCPA 1973); In re Andre, 341 F.2d 304, 144 USPQ 497 (CCPA

P. 54 J. MOORE. J. LUCAS, MOORE'S FEDERAL PRACTICE [52,06(1)] (2d ed. 1984). Pullnan-Standard v. Swint, 456 U.S. 273, 292 n.22 (1982); 54 MOORE'S FEDERAL PRACTICE [52,06(2)]. Face 3A MIOORE'S FEDERAL PRACTICE [52,06(2)]. The standard standard, 456 U.S. 273.

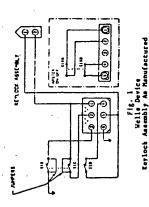
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override switching means. An indicating means signals that the override switching ing means capable of being overridden by an the switches and the indicator light remain in their overridden positions until the key operated switch is switched on, resetting the overmeans has been actuated. Once overridden, ride switching and indicating means.

## The Accused Infringing Device.

The Wells device also contains each of the three physical elements of claims 1 of the Sonnenberg patent: (1) a key operated actuat-(2) a remote control actuating switch; and (3) an indicator light. The district court, however, found that the Wells device does not contain the claimed limitation of overriding a locked switch - a difference in ing switch;

The Wells device is a modified version of a standard hospital/hotel/motel television receiver. The keylock in the Wells system actuates 5 switches: S1XA; S1XB; S1B, S1C, and unction.



In the Wells device, the jumper wires, provided by the manufacturer on switches S1B and S1C, are not removed. [Fig. 2.]

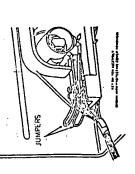


Fig. 2 Wells Davicc Rest of Rey Switch Showing Jumpers

Switches S1B and S1C are shorted out by those jumper wires, rendering those switches electrically inoperable. Additionally, switch S1D [Fig. 1] is "replaced" by relay RL-2 [Fig. 3] of the Weils remote control circuit.

:			. •	
	 •	J#		900 200 200
	<b>-</b>			Fig. 3 Wells Device contin of Bounts C.

Table 1

Hin

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 $\overline{\mathfrak{T}}$ 

S1D is cut between switch S1D and the connection of the lead to relay RL-2 [Fig. 3]. Thus, the circuit through switch S1D is Relay RL-2 is connected in parallel with switch SID and one of the leads to switch rendering that switch electrically inoperable. broken,

RL-2 is not controlled by the key switch. Rather, switch S1 [Fig. 3], located on the remote control unit, operates relay RL-2 in is energized causing relay RL-2 to open. Similarly, switch SID, which relay RL-2 replaces, was normally closed when the telerelay RL-2 remains normally closed. When vision was not rented and was opened by Unlike switch S1D which it replaces, relay the Wells device. When S1 is not depressed switch S1 is depressed, the coil in relay RL-2 turning the key switch to rent the television.

switch operates only two switches — SIXA and SIXB [Fig. 1] — which control the delivery of power to the television receiver. Switches S1B, S1C, and S1D, therefore, When these switches are closed [positions 2 are disabled in the Wells device.



the Wells device.3 Switch St and the key switch are electrically independent in the Wells device [Fig. 4]. and 3] [Table 1], power is delivered to the tuner, when these switches are open [position 1] [Table 1], the circuit is broken and no

power reaches the tuner.

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ACS Hospital Systems, Inc. v. Montehore Hospital

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ACTUAL CONTROL OF ST.	L	CH15513		XX 200				0 0 0 C	
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As manufactured, when the key switch of a standard receiver is in position 2 [Table 1], switch S1D is open and the television operates normally. Position 2 functions as an "on" setting in the standard receiver. In the Wells device, however, switch S1D [Table 1] has been disconnected and it has been replaced by relay RL-2. Relay RL-2 cannot be opened by manipulation of the key switch, as was switch SID. Thus, the receiver cannot be actuated merely by turning the key switch to position 2 in the Wells device." Switch S1 opens relay RL-2. The Wells receiver can be made fully operable only by depressing switch S1 [Fig. 3] while master on-off switches S1XA and S1XB are closed - position 2 or 3 [Table 1].

power is interrupted and depressing actuating When the key switch is in position 1, switch S1 will not actuate the receiver. The Wells key switch performs the same function in position 2 as in position 3. In both of these switch SI does not override the key switch of positions, while power is supplied to the tuner, the actuating switch S1 must be depressed to actuate the television. in order

In summary, the Wells device exhibits three modes of operation: (1) off -- locked out (switches SIXA and SIXB open); (2) rentactuated (switches SIXA and SIXB closed and switch SI open); and (3) rented - key position 2 or 3 and SI actuated (switches \$1XA and \$1XB closed and switch \$1 closed). Normal operation of the Wells device can be achieved only by depressing S1 while the power is switched on (key switch position 2 or 3). The invention claimed in the Sonnenberg patent, on the other hand, also exhibits three modes of operation: (1) "off" — rentable (override switch not actuated); (2) "(3" - rented (override switch actuated); and (3) "on" - key operation (key switch turned on able - key position 2 or 3 and \$1 and override switch not actuated).

On the basis of our examination of the record we infer that the district court neces-

Dur assessment of the operation of the Weils It appears that only switches S1XA and S1XB are controlled by the key switch. Thus, our analysis supports the trial judge's implication that there is no functional difference between positions 2 and 3 of the key switch. The above analysis assumes that device is based on the trial court's findings and on the documentary and testimonial evidence of record. that is actuated in either position 2 or position 3, but not both. We are aware of no evidence that such a third circuit fulfills the role of the key switch and is in turn overridden by switch SI. the key switch does not operate some third circuit

<sup>&</sup>quot;It appears that had RL-2 and SID been wired in series, instead of in parallel with SID disabled, the Wells device would exhibit the claimed "on"

S1D are disabled, (2) the key switch controls only switches S1XA and S1XB — the master on-off switch; and (3) the receiver can be actuated only by depressing S1 while the key switch is in either position 2 or 3 (so that switches S1XA and S1XB are closed). found the following relative to the device: (1) switches S1B, S1C, and sarily

### Literal Infringement

These implied findings lead inexorably to the district court's express finding that the Wells device lacks the claimed limitation of overriding a locked key switch. Further, these findings indicate that the Wells device does not exhibit the claimed "on" key switch

claim I correspond to the "on" positions [positions 2 and 3] of the key switch in the Wells device. The Wells device cannot be operated normally through the key switch alone, as is required by claim 1. Rather, switch S1 must finding, that Wells does not literally infringe the claims of the Sonnenberg patent, is not Both the "on" and "off" positions recited in be depressed in conjunction with power being before us, we conclude that the district court's supplied to the receiver through the key switch. Hence, on the basis of the record

### Doctrine of Equivalents

the standard articulated in Graver Tank & Manufacturing Co. v. Linde Air Products Co.," it entered no findings on the issue of equivalence: whether the Wells device performs substantially the same function as the way to obtain substantially the same result.22 Yet, the court clearly implied that Wells does doctrine of equivalents and entered judgment While the district court purported to apply claimed invention in substantially the same not infringe the Sonnenberg patent under the to that effect.

found that the Wells device, lacking the claimed function of overriding a locked key we conclude that the district court's switch, does not function in substantially the same way as the claimed invention. That inference is supported by the record. Accordfinding, that the Wells device does not in-We infer that the district court necessarily

fringe the Sonnenberg patent under the doctrine of equivalents, is not clearly erroneous. Hence, we affirm in part the judgment of the district court insofar as it relates to the finding that the Wells device does not infringe the claims of the Sonnenberg patent, either literally or under the doctrine of equivalents.

### Attorney Fees

[7] The trial judge found that this is not an for attorney fees. In order to prevail on its demonstrate that the trial judge abused his discretion in finding that this case is not exceptional. Thus, we affirm the district court's denial of Wells' motion for attorney exceptional case and denied Wells' request cross-appeal, Wells must establish that the trial judge abused his discretion in this regard and not merely, as Wells' attorneys contend, that the trial judge committed clear error. Wells has not demonstrated the requisite abuse of discretion, although it attempts to do so by demonstrating alleged fraudulent con-duct by ACS before the Patent and Trademark Office. Fraud has not been shown. Nor have other facts been established that would

### Conclusion

of law with respect to its resolution of the validity issue. The district court's conclusion erroneous. Additionally, we hold that the trial judge did not abuse his discretion in denying In summary, we hold that the district court committed both clear errors of fact and errors that the Sonnenberg patent is invalid under section 103 is incorrect as a matter of law. We conclude that the trial court's finding, that Wells does not infringe the claims of the Sonnenberg patent, either literally or under the doctrine of equivalents, is not clearly Wells' motion for attorney fees.

Affirmed-in-part. reversed-in-part.

Roche Products, Inc. v. Bolar Pharmaceutical Co., Inc.

# Court of Appeals, Federal Circuit

Roche Products, Inc. v. Bolar Pharmaceutical

Decided Apr. 23, 1984 No. 84-560

# Infringement — In general (§39.01)

language of statutory patent grant which gives patentee right to exclude others from making, using, or selling patented invention; performance of only one of three enumerated patented invention, without either manufacture or sale, is actionable; thus, parentee does not need to have any evidence of damage or lost sales to bring infringement action; Section 271(a) prohibits, on its face, any and all uses of patented invention; because Congress never defined use, its meaning 35 USC 271(a) incorporates disjunctive activites is patent infringement; in particular, has become matter of judicial interpretation.

### 2. Court of Appeals for the Federal Circuit — In general (§26.51)

Precedents of Court of Claims bind CAFC.

# 3. Infringement — In general (39.01)

in Ordnance Engineering Corp. v. U.S., 32 USPQ 842, Chesterfield v. U.S., 116 USPQ 445, Douglas v. U.S., 181 USPQ 170, and Pitcairn v. U.S., 192 USPQ 612, experimened drug for iederally mandated premarketing tal use exception is truly narrow; argument of experimental use exception as established that it deserves broad construction is not Accused infringer's intended use of patenttests does not fall within "traditional limits" justified.

# 4. Infringement — In general (§39.01)

Pitcairn v. U.S., 192 USPQ 612, which sets forth law that tests, demonstrations, and experiments that are in keeping with legitimate business of alleged infringer are indetense, is most persuasive of Court of Claims fringements for which experimental use is not cases concerning experimental use defense.

# 5. Infringement — In general (§39.01)

view to adaptation of patented invention to experimentor's business is violation of rights of patentee to exclude others from using his 岁 Unlicensed experiments conducted with accused infringer's use of patented drug for minimus; CAFC cannot construe experimenfederally mandated premarketing tests patented invention; it is misnomer to

tal use rule so broadly as to allow violation of when that inquiry has definite, cognizable, patent laws in guise of "scientific inquiry, and not insubstantial commercial purposes.

# 6. Patent grant - In general (§50.01)

CAFC must presume that Congress was aware that FDCA would affect earning potentiality of drug patent, and chose to permit

### 7. Court of Appeals for the Federal Circuit - Issues determined (§26.53)

### Court of Appeals for the Federal Circuit - Jurisdiction (§26.55)

CAFC is not proper forum in which to debate proposed bills regarding interaction of patent laws and drug laws, no matter how persuasive policy arguments are for or against these bills.

### 8. Court of Appeals for the Federal Circuit - Issues determined (§26.53)

## Injunction — In general (§40.1)

Patent owner is entitled to remedy, since CAFC holds that there is infringement, CAFC is not in position, however, to decide form of that remedy,

## 9. Injunction - In general (40.1)

Case is not moot, because although patent expired and thus initially requested order is fashioned to give patent owner relief against infringement, such as order to confiscate and no longer necessary, other remedies can be destroy data infringer generated during its infringing activity.

### 10. Court of Appeals for the Federal Circuit - Issues determined (§26.53)

## Injunction - In general (§40.1)

35 USC 283 provides basis for injunctive ing whether facts of situation require it to issue injunction; scope of relief is not for relief; Section 283 makes issuance of injunction discretionary; court may grant relief in court has considerable discretion in determin-CAFC to decide at first instance. accordance with principles of

# 11. Injunction — In general (§40.1)

### Jurisdiction of courts - Patent infringement (§43.45)

District judge, before getting into issue of equitable relief, must determine if he can deal with case by adequate money damages; if he can, predicate for equitable relief of harsh, or even mild, character is gone; it is not case that

<sup>&</sup>lt;sup>21</sup> Graver Tank & Mfg. Co. v. Linde Air Prods. Co., 339 U.S. 605, 607-09, 85 USPQ 328, 330-331

<sup>&</sup>lt;sup>1</sup> Id. at 608, 85 USPQ at 330. Sanitary Refrigerator Co. v. Winters, 280 U.S. 30, 42, 3 USPQ 40, 44 (1929).

McElmurry v. Arkansas Power & Light Co.

though claim I may have a cabinet limitacomponents of the tissue processor must be within the cabinet. Indeed, the specification states that "the conrols could be mounted in a separate cabinet." Id. col. 10, lines 34-35.

tions of the accused device, establish the reference point for the doctrine of equivalents. Insta-Foam, 906 F.2d at 702. Infringement under the doctrine does not vanperforms functions in addition to those performed by the claimed device. Id. Regardless of separation into modules, Shandon's sysish merely because the accused device The limitations and functions of the inventem is still a "completely automatic system for allowing light microscopy tissue to be processed under a completely automatic seout requiring substantial movement of the specimens." See Miles I, slip op. at 3-4. Thus, the HYPERCENTERs achieved subtion in the claims, not the elements or funcquence in an entirely closed system and with stantially the same result as the '073 patent. specimens."

simply because it used separate cabinets, as To allow Shandon to escape infringement opposed to a single cabinet, is the exact type vents. See Laitram Corp., 863 F.2d at 856-57. This court discerns no clear error in the district court's finding of infringement under of injustice the doctrine of equivalents prethe doctrine of equivalents.

### The '460 Patent

patent invalid for obviousness under 35 J.S.C. § 103 (1988). Miles I, slip op. at 16-17. The district court later held the depend-The district court held claim 1 of the '460 ent claims of the '460 patent (claims 2, 4-7) invalid by virtue of claim 1's invalidity Miles II, slip op. at 2.

## 35 U.S.C. § 103 — Obviousness

ness is a question of law. Specialty Composites v. Cabor Corp., 845 F.2d 981, 989, 6 USPQ2d 1601, 1606 (Fed. Cir. 1988). The analysis of obviousness, however, rests on several factual inquiries: (1) the scope and content of the prior art; (2) the differences between the prior art and the claims; (3) the invention; and (4) objective evidence of non-obviousness. Id. (citing Graham v. John Deere Co., 383 U.S. 1, 17-18, 148 USPQ 459, 467 (1960)). This court reviews these factual underpinnings for the legal conclusion of obviousness under the "clearly erro-The ultimate legal conclusion of obviouslevel of ordinary skill in the art at the time of neous" standard. Specialty Composites, 845

based on district court findings not found to F.2d at 989. The facts stated herein are be clearly erroneous or otherwise not in

dispute.

patent), and the Lipshaw Manufacturing Corporation's "Fluid X Changer." The '203 patent covers an electron microscopy tissue not need to reuse processing reagents. Nonetheless, the specification of the '203 patent The prior art in this instance included U.S. Patent No. 3,526,203 (the '203 patent), U.S. Patent No. 3,227,130 (the Weiskopf processor. Electron microscopy differs from light microscopy in that the former requires tissue specimens, electron microscopy does provides: "it will be apparent that the processor of the invention may be used for processing the larger sized tissue particles which are Miles I, slip op. at 10 (quoting U.S. Patent No. 3,526,203, col. 8, lines 5-8). The claims of the '203 patent disclose the vacuum com-ponent of the '460 patent. Furthermore, the 203 patent suggests a solution to the probonly very small tissue specimens. With small lem resolved by claim 1 of the '460 patent, namely, a means of reusing a solution by returning unused quantities to the storage intended for light microscopy examination. container with pressure.

The specification of the '203 patent

provides:

required to be pumped back to the con-tainers after use appropriate pumping and switching controls would have to be ferred through the lines and valves conchamber. If the particular solutions are necting the containers with the processing practice in electron microscopy work is not to reuse the solutions and in the system of the invention only fresh solution is trans-In this regard it should be noted that the

reuse solutions, the 203 patent suggests to a skilled artisan the reuse of solutions by provided. U.S. Patent NO. 3,526,203, col..8, lines 12-19. Although electron microscopy does not pumping them back to their storage containers.

also suggests transfer of solutions by pressure. Moreover, the Weiskopf patent discloses a tissue processor which transfers solutions by pressure controls. Thus, the prior art of histological equipment taught the flow of liquids in tissue processing apparatuses from one location to another with vacuum-The "Fluid X Changer" (a device used for sustaining slides bearing tissue specimens) pressure

The differences between the prior art and claim I of the '460 patent were minor and achievable by simple modification. Moreover, the prior art references collectively sug-

ning a line from the processing chamber back to the fluid storage containers (rather than to the waste tank), the '203 patent gest the engineering necessary to achieve these modifications. Simply put, the '203 not reuse fluids but instead discharges them into a waste tank after processing. By runpatent discloses a tissue processor which does

would anticipate the '460 patent.

weigh in favor of obviousness. See, e.g., Custom Accessories, Inc. v. Jeffrey-Allan Indus., Inc., 807 E.2d 955, I USPQ2d 1196, 1199 (Fed. Cir. 1986). Miles presented no evidence, for instance, that its device repre-[6] The level of ordinary skill in the art suggests as well a thorough knowledge of the principles of fluid transfer using pressurevacuum pumps, valves, and conduits at the ly, Miles did not show objective indicia of non-obviousness. Such evidence, if present, would weigh in favor of non-obviousness, although the lack of such evidence does not sented a substantial share of any definable market. Miles also did not offer evidence on factors such as long-felt need or teaching time of the '460 patent's development. Final-

away in the prior art.
[7] In sum, the district court concluded:
On the basis of the Graham test, therefore,

cause the subject matter of claim 1 as a whole would have been obvious at the time we conclude that claim 1 of the '460 patthe invention was made to a person having ent is invalid under 35 U.S.C. § 103 beordinary skill in the art to which the subect matter pertains.

clusion. Therefore this court affirms the dis-Miles I, siip op. at 16-17. This court finds no district court's obviousness findings and contrict court's determination of invalidity of error (and certainly no clear error) with the claim 1 of the 460 patent.

requires an independent analysis of the validity of each claim. 35 U.S.C. § 282 (1988); Ortho Pharmaceutical Corp. v. Smith, 959 F.2d 936, 942, 22 USPQ2d 119, 1124 (Fed. hed its earlier decision and also held dependent claims (2 and 4-7) of the '460 patent invalid. Miles II, siip op. at 1-2. Section 282 Cir. 1992). A party challenging the validity In its later opinion, the district court clariof a claim, absent a pretrial agreement or stipulation, must submit evidence supporting claim. Id. Where the parties stipulate to "representative" claims, however, a validity a conclusion of invalidity for each contested resolution for the representative claims applies to the other claims as well. See Panduit *Corp. v. Dennison Mfg. Co.,* 836 F.2d 1329, 1330-31, 5 USPQ2d 1266, 1267-68 (Fed. Cir. 1987).

In an April 1988 pretrial "Stipulation of

Agreed Fact, Law of the Case and Questions of Law," the pairties agreed.
The "460 patent contains seven claims. Claim 1 is the only independent claim. Claims 2 through 7 depend directly or indirectly from claim 1. Consequently, claim 1 is the broadest claim and can be considered to be representative of the claims in this patent.

Miles II, slip op. at 2 n.1. This stipulation of the parties made claim I a representative for the other claims in the patent. Thus, the understood that the result the court reached for claim I would bind all other claims. Therefore, this court affirms the district court's invalidation of the dependent claims parties, their counsel, and the trial court of the '460 patent.

The district court also determined that the district court's infingement determination. See Dana Corp. v. IPC Ltd. Partnership, 860 F.2d 415, 417, 8 USPQ2d 1692, 1694 (Fed. Cir. 1988), cert. denied, 490 U.S. 1067 ity findings, this court need not reach the accused device infringed the '460 patent. Because it affirms the district court's invalid-1989)

affirms the district court's findings of infringement of the '073 patent and the upholding of its validity. This court also affirms the district court's holding that claims 1, 2, and 4-7 of the '460 patent are invalid due to For the above stated reasons, this court obviousness.

Each party shall bear its own costs for this appeal.

### AFFIRMED

Court of Appeals, Federal Circuit

McElmurry v. Arkansas Power & Light Co. No. 92-1246

Decided June 16, 1993

1. Procedure - Summary judgment - Patents (§410.3303) PROCEDURE

PRACTICE

JUDICIAL

Procedure - Judicial review - Standard of review - Patents (§410.4607.09)

Appeals court, in reviewing federal dis-trict court's grant of summary judgment in

#### PATENTS

### 2. Infringement - Defenses - In general (§120.1101)

## Title — License (§150.05)

power station, that all costs and expenses associated with testing and implementation entee had developed invention while working detector, with patentee's consent and partici-pation, on 128 precipitator hoppers at its ant, and that patentee never asserted that defendant was precluded from using level detector without his permission or was reunder principles of equity and fairness, finding that "shop right" exists; federal district had acquired "shop right" in patented level detector which entitled defendant to duplicate that level detector for use in its business, in view of evidence demonstrating that patfor defendant, that defendant installed level of those level detectors were paid by defendpatented invention is to consider, on case by case basis, totality of circumstances, such court did not err in finding that defendant Proper methodology for determining whether employer has acquired "shop right" as circumstances surrounding development patented invention and inventor's activities, and determine whether facts demand. quired to compensate him.

### Particular patents - General and me-- Level detector chanical

hopper level detector system, summary judg-4,527,714, Bowman, pressure responsive ment of non-infringement affirmed. Appeal from the U.S. District Court for the Eastern District of Arkansas, Reasoner,

Action by Max C. McElmurry and White River Technologies Inc. against Arkansas Power & Light Co., Entergy Corp., and ment. From federal district court's grant of defendants' motion for summary judgment, Middle South Utilities, for patent infringeplaintiffs appeal. Affirmed David A. Hodges, Little Rock, Ark., for appellants.

Thomas F. Meeks, of Friday, Eldredge & Clark, Little Rock, for appellees. Before Nies, chief judge, and Rich and Mayer, circuit judges.

#### Rich, J.

disputes precluding a finding that AP&L holds "shop rights" to certain subject matter claimed in U.S. Patent No. 4,527,714, titled claim of the Bowman patent. For the reasons matter of law, AP&L had not infringed any Technologies, Inc. (WRT) appeal the February 10, 1992 Judgment of the U.S. District Northern Division, granting a motion for summary judgment filed by Arkansas Power & Light Company (AP&I) and Entergy Corporation. The district court held that there were no relevant or material factual "Pressure Responsive Hopper Level Detector System" (Bowman patent), and thus. as a Max C. McElmurry and White River Court for the Eastern District of Arkansas, set forth below, we affirm.

## I. Standard of Review

infringement, the jurisdiction of the district court was based at least in part on 28 USC § diction over this appeal pursuant to 28 USC § 1295(a)(1) (1988). Because WRT's complaint alleged patent 338(a) (1988). Accordingly, we have juris-

[1] Under the Federal Rules of Civil Procedure, a motion for summary judgment is properly granted only where

the pleadings, depositions, answers to in-terrogatories, and admissions on file, to-gether with the affidavits, if any, show that there is no genuine issue as to any material fact and the moving party is trict court's grant of summary judgment, we must make an independent determination as to whether the standards of Rule 56(c) have oflaw. Intellicall, Inc. v. Phonometrics, Inc., 952 F.2d 1384, 1387, 21 USPQ2d 1383, 1386 (Fed. Cir. 1992). entitled to judgment as a matter of law. Fed. R. Civ. P. 56(c). In reviewing the disbeen met. Reversal is required if the district court improperly determined any genuine issue of material fact or erred in holding that AP&L was entitled to judgment as a matter

"WRT" refers jointly to Mr. McElmurry and White River Technologies, Inc., and "AP&L" refers jointly to Arkansas Power & Light Company and Energy Corporation. the context indicates otherwise, ' Unless

# a nuclear power source (K-ray system) to II. Genuine Issues of Material Fact

McElmurry v. Arkansas Power & Light Co.

mary judgment, the district court was required to view the evidence in the light most avorable to WRT and to draw all reason-AP&L had the burden of demonstrating the absence of any genuine issue of material fact. However, since AP&L supported its motion with three affidavits, deposition testimony and a Rule 29 Statement of Uncontested Facts based upon these affidavits and testimony, the burden shifted to WRT to come facts showing that there was a genuine issue for trial. Hodosh v. Block Drug Co., 786 F.2d 1136, 1141, 229 USPQ 182, 186 (Fed. Cir.), cert. denied, 485 U.S. 1007 (1988); Fed. R. Civ. P. 56(c). In considering AP&L's motion for sumable factual inferences in WRT's favor. forward with evidence directed to specific

WRT failed to come forward with such evidence, instead choosing to rely upon con-clusory statements and denials in its pleadings.1 Mere denials and conclusory statements, however, are not sufficient to establish a genuine issue of material fact. Hodosh, 786 F.2d at 1141, 229 USPQ at 186; Fed. R. Civ. P. 56(e). Therefore, we find no error in the district court's holding fact necessitating trial or in the district court's acceptance of the facts presented by that there were no genuine issues of material AP&L in its supporting evidence for purposes of analyzing the "shop rights" issue.

### III. Shop Rights

which removes granular ash particles (fly ash) from the gasses emitted by coal-fired boilers used to generate steam. As fly ash is removed, it is collected in hoppers referred to as precipitator hoppers. Prior to April of 1982, the precipitator hoppers at White AP&L hired Harold L. Bowman, the patentee, as a consultant on October 24, 1980, to assist in the installation, maintenance and operation of electrostatic precipitators at AP&L's White Bluff Steam Electric Station (White Bluff) located near Redfield, Arkansas. An electronic precipitator is a device Bluff employed a level detector system using

of deciding AP&L's motion for summary judgment. For example, WRT denied several of AP&L's uncontested facts and admissions requests and declined to answer several of AP&L's interrogatories merely on the basis that WRT acked knowledge as to the information at issue.

AP&L was not satisfied with the K-ray system. As a result, in the early part of 1982, K-ray system with a new level detector, an initial design of which they drew on a napthe hopper extended above the point where the pipe was inserted into the hopper, the Bowman discussed with a Mr. Richard L. Roberts, an AP&L employee, replacing the kin. In the proposed level detector, a vacuum gauge was connected to a pipe inserted hopper. If the level of the fly ash collected in vacuum gauge would no longer indicate that a vacuum existed, as it would if the level of monitoring the vacuum gauge, one could determine whether the fly ash exceeded a and welded into the wall of a precipitator the fly ash were below that point. Thus, by AP&L considered the proposed level detector and, during a power outage in March of 1982, ordered its installation on one hopdetect the level of hy ash in the hoppers. certain level in the hopper.

per at White Bluff for testing purposes. When it proved successful, AP&L ordered that the level detector be installed on a total of sixteen (16) precipitator hoppers at White Bluff. In each ease, level detectors were installed both near the bottom and top of the hopper, thus allowing for the detection of the ordered that the level detectors be installed on the remaining one hundred and twelve (112) precipitator hoppers at White Bluff. All costs associated with the installation and testing of the level detector on the one hundred and twenty eight (128) hoppers at White Bluff, including materials and working drawings, were paid by AP&L.
On October 24, 1982. Bowman moved from White Bluff to AP&L's Independence fly ash at two different levels in the hopper. When this system proved successful, AP&L

Steam Electric Station (ISES) located near Newark, Arkansas, to assist in the start-up, maintenance and operation of electronic precipitators at that facility. In November of 1982, Bowman sormed White Rivers Technology, Inc. with McElmurry and a Mr. Johnny Mitchum, to market certain inventions on which Bowman held patents or was planning to seek patent protection. Bowman filed a patent application on the level detec-tor on February 18, 1983, and the patent-in-The district court noted in note 2 of

opinion that, although there was some question as to whether Bowman was the sole inventor of the level detector, the court would adopt WRT's claim that he was the sole inventor for purposes

McElmurry v. Arkansas Power & Light Co.

prior to its issuance, Bowman assigned his patent rights to WRT. suit issued on July 9, 1985. At some point

operation on all one hundred and twenty eight (128) precipitator hoppers by the end of 1984, prior to the issuance of the Bowman patent. Bowman's contract with ISES ended, however, in October of 1983 before completion of the project, All costs sixty four (64) hoppers. AP&L did contract with WRT, however, to install certain electronic components of the level detectors installed by the outside contractor. The level detectors had been installed and were in associated with the installation and testing of the level detectors at ISES, including materials and working drawings, were paid by AP&L even though some of the work was installing the level detector on precipitator hoppers at that facility. AP&L requested bids for the project and ultimately contracted with WRT to install the level detector on sixty four (64) of the hoppers at that location. An outside contractor other than WRT installed the level detector on the remaining While at ISES, Bowman assisted another AP&L engineer, a Mr. Will Morgan, in

level detector on the precipitator hoppers at White Bluff and ISES, another AP&L engineer, a Mr. John Harvey, implemented a plan to install the level detector on fourteen (14) hydroveyer hoppers at ISES.\* Harvey informed Bowman of the plan to install the level detector on the hydroveyer hoppers. was a good idea. Bowman also indicated that WRT would be interested in bidding on the project. AP&L ultimately awarded the con-In 1985, based upon the success of the and Bowman indicated that he thought it tract, however, to another contractor becontracted out.

and computer located in the precipitator control room, thus allowing for remote detection of the fly ash level in the hoppers.

The function of a hydroveyer hopper is esinstalled on each hopper both near the bottom and the top of the hopper. Unlike White Bluff, however, the gauges on the level detectors AT ISSES were connected to a light signalling device 'As at White Bluff, the level detector was

The function of a hydroveyer hopper is essentially the same as that of a precipitator hopper, i.e., to collect ash. They differ in that a precipitator hopper collects small particles of ash extracted by an electrostatic precipitator, whereas a hydroveyer hopper collects larger particles of ash in and around a device known as an econo-

mizer. They also are shaped differently and are located at different places in the plant.

On these hoppers, the level detector was mistalled are the middle of each hopper, and the detector was connected to a remote light signall-

was completed in 1985, and all costs associated with their installation were paid by AP&L. tectors on the hydroveyer hoppers at ISES iting bids on the hydroveyer project. AP&L provided the contractors with specifications prepared by AP&L showing the work to be performed. The installation of the level decause WRT was not the low bidder. In solic-

## B. District Court Litigation

On April 25, 1990, WRT brought suit against AP&L for patent infringement based on AP&L's solicitation of and contracting with a party other than WRT to install Bowman's patented level detector on the hydroveyer hoppers at ISES. The district the court agreed that, as a matter of law, Bowman's development of the patented level detector at AP&L's. facilities at AP&L's reciprose entitled AP&L, under the "shop rights" rule, to reproduce and use the level detector in its business. WRT then apcourt granted summary judgment in favor of AP&L on the basis that AP&L had acquired a "shop right" in the level detector claimed in the Bowman patent. AP&L argued and pealed to this court.

#### C. Analysis

A "shop right" is generally accepted as being a right that is created at common law," when the circumstances demand it,

Bowman patent relative to the alleged infringing activity or relative to any "shop right" that AP&L possessed. Rather, the court stated that it would view the facts in the light most favorable to WNIT and accept, for purposes of AP&L's summary judgment motion, that the alleged infring-'The court never analyzed the claims of the

ing devices were identical to those claimed in the Bowman patent and previously installed at AP&L's facilities.

ARLOUGH a creature of common law, most courts rely upon the leading Supreme Court decisions McClurg v. Kingsland, 42 U.S. (1 How.) 202 (1843), Gill v. United States, 160 U.S. 426 (1896), and United States, 160 U.S. 426 (1896), and United States, 160 U.S. 426 corp., 289 U.S. 178 [17 USPQ 154] (1933), to analyze "shop rights" issues, even though these decisions were rendered prior to Erie Railroad Co. v. Tompkins, 304 U.S. 64 (1938). See Wommack v. Durham Pecan Co., 715 F.2d 962, 219 USPQ 1153 (5th Cir. 1983); Mechangals Corp. V. Telex Computer Prods., Inc., 109 F.2d 1287, 219 USPQ 20 (9th Cir. 1983); Hobbs v. United States, 376 F.2d 488, 133 USPQ 378 (3th Cir. 1967); Wiles v. Union Wire Rope Corp., 134 F.Supp. 299, 107 USPQ 266 (W.D. Mo. 1953); appeal dismissed, 257 F.2d 813 (8th Cir. 1958); Thompson v. American Tobacco Co., 174 F.2d 773, 81 USPQ 323 (4th Cir. 1949); Ingestall-Rand Co. v. Ciavatta, 110 N.J. 609; 542 A.2d 879, 8 USPQ2d 1537 (N.J. 1988); Cambridge Wire Cloth Co. v. Applegarth, 142 USPQ 514

See generally D. Chisum, Patents. § 22.02 [3] (1985 rev.); C.T. Dreschler, Annotation, Application and Effect of "Shop Right Rule" or License Giving Employer Limited Rights in Employee's Inventions and Discoveries, 61 AL.R.2d 356 (1958); P. Rosenberg, Patent Law Fundamentals. § 11.04, 11.20 (1991). However, as recognized by several commentators, supra, the immense body of case law addressing the issue of "shop rights" suggests that not all courts agree as to the doctrinal basis for "shop rights." and, consequently, not all courts agree as to the particular set of circumstances necessary to create a "shop right." under principles of equity and fairness, entitling an employer to use without charge an invention patented by one or more of its employees without liability for infringement.

For example, many courts characterize a "shop right" as being a type of implied license,' and thus the focus is often on invention. Other courts characterize a "shop right" as a form of equitable estoppel, " and whether the employee engaged in any activities, e.g., developing the invention on the employer's time at the employer's expense, which demand a finding that he impliedly granted a license to his employer to use the

sation for Employee Inventions, 73 JPTOS 647-48 (1991)

10 In Gill, 160 U.S. 426, an influential estoppel case, the Supreme Court stated in pertinent part at pages 436-37

employer, he cannot claim compensation there-for, especially if his experiments have been conducted or his machines have been made at course of his employment, and he knowingly assents to the use of such inventions by his if the inventions of a patentee be made in the the expense of such employer.

case in the use of his invention by the [employ-er] is fully shown by the fact that he was in its employ; that the adoption of his inventions by The acquiescence of the [inventor] in this [employer] was procured at his suggestion;

cence to his employer's use of the invention, demand a finding that he is escopped from asserting a patent right against his employer.
Neither characterization appears to be inherently better than the other, and the end result under either is often the same, given that the underlying analysis in each case is driven by principles of equity and fairness, ployee's actions, e.g., consent or acquiesand given that the courts often analyze a "shop right" as being a combination of the two even though they may characterize it in name as one or the other." thus the focus is often on whether the em-

It is thus not surprising that many courts instead choosing to characterize a "shop right" more broadly as simply being a common law "right" that inures to an employer when the circumstances demand it under principles of equity and fairness. These courts often look to both the circumstances surrounding the development of the inven-tion and the facts regarding the employee's adopt neither characterization specifically,

prepared at the cost of the [employer]; that the machines embodying his inventions were also built at the expense of the [employer]; that he never brought his inventions before any agent of the [employer] as the subject of purchase and sale; that he raised no objection to the use of his inventions by the [employer]; and that the [employer] never undertook to incur a legal or pecuniary obligation on the part of the that the pattern and working drawings were

compleyer, and a control of the part of the lemployer] for the use of the inventions or the right to manufacture thereunder.

See also Dowel v. Stass-Sheffield Steel & Iron Co., 139 F.2d 36, 60 USPQ 86 (3th Cir.), cert. denied, 322 U.S. 740 [61 USPQ 543] (1944);

Beerorf & Blackman, Inc. v. Roonev, 388 F. 545 (S.D.N.Y.), evvi do nother grounds, 230 F. 543, 499 (2d Cir.) 1922) (Judge Learned Hand: "The rule is entirely equitable: the books put in the form of an estoppel.")

"Some courts even characterize a "shop right" as being a combination of an implied lienne and equitable estoppel. See Kievulf v. Metropolitan Stevedove Co., 315 F.2d 839, 137 USPQ 195 (9th Cir. 1963).

"See Dublike: 239 U.S. 178 [17 USPQ 154]; Francklyn v. Guilfood Packing Co., 695 F.2d 1158, 217 USPQ 317 (9th Cir. 1983); Consolidated Autee Aicresif Corp. v. Maurice A. Gardell Inc., 204 F.2d 946, 98 USPQ 4 (9th Cir.), cert. denied, 346 U.S. 873 [99 USPQ 319] (1953); Thompson, 174 F.2d 773, 81 USPQ 321 (1953); Thompson, 174 F.2d 773, 81 USPQ 321 (1953); Thompson, 174 F.2d 773, 81 USPQ 331 (1953); USPQ 4 (9th Cir.), cert. denied, 346 U.S. 873 [99 USPQ 4 (9th Cir.), cert. denied, 346 U.S. 873 [99 USPQ 500, 200 USPQ 770); Experience Wire, 147 (SDP), 111 115 USPQ 513 (SDP), 111 115 USPQ 513 (SDP), 111 115 USPQ 513 (SDP), 115 142 USPQ 514; Aero Bolt, 180 Cal. App. 24 728, 5 Cal. Rptr. 53, 125 USPQ 545; Cahill v. Regun. 5 N.Y. 24 292, 157 N.E.2d 505, 184 N.Y.S.2d 348, 121 USPQ 58. 27 USPO2d

McElmurry v. Arkansas Power & Light Co.

activities respecting that invention, once defair and equitable to allow an employee to preclude his employer from making use of veloped, to determine whether it would be that invention. This is essentially the analysis that most courts undertake regardless of how they characterize "shop rights.

specting that invention, once developed, to determine whether equity and fairness demand that the employer be allowed to use that invention in his business. A factually the district court used to reach its decision, we see no error in the district court's analysis a particular case demand, under principles of equity and fairness, a finding that a "shop surrounding the development of the patented invention and the inventor's activities redriven analysis such as this ensures that the principles of equity and fairness underlying cause this is exactly the type of analysis that [2] In view of the foregoing, we believe that proper methodology for determining right" exists. In such an analysis, one should look to such factors as the circumstances whether an employer has acquired a "shop right" in a patented invention is to look to the totality of the circumstances on a case by case basis and determine whether the facts of the "shop rights" rule are considered.

looked to the discussion of "shop rights" set forth in the often-cited Dubilier case, in To reach its decision, the district court justifying reversal.

equitable principles. Since the servant uses his master's time, facilities and matecate it as often as he may find occasion to fects an invention for which he obtains a clusive right to practice the invention. [citation omitted] This is an application of is in equity entitled to use that which embodies his own property and to dupliwhere a servant, during his hours of emrials to attain a concrete result, the latter ployment, working with his master's materials and appliances, conceives and perpatent, he must accord his master a nonexwhich the Court said:

pages 9-10 of its opinion, the district court included the following excerpt from pages 6employ similar appliances in his business. Dubilier, 289 U.S. at 188-89. The district rights" set forth in one of WRT's briefs filed in the district court action as correctly summarizing several factors that may be considered in analyzing a "shop rights" case. " At court also accepted a discussion of "shop

8 of WRT's Memorandum Brief in Support of Response to Motion for Summary

ined to determine whether a shop right exists." Rosenberg, Patent Law Fundamentals, § 11.04, 11-20 (1991). The following factors have been considered: the the employee consented to the employer's ployee induced, acquiesced in, or assisted the employer in the use of the invention. the parties' relationship must be examtween employer and employee, whether use of the invention, and whether the emvolved in determining whether shop rights in [an] invention arise, "[t]he full nature contractual nature of the relationship be-Because broad equitable principles are in-

providing wages, materials, tools and a work place. Other factors creating shop rights include an employee's consent, acquiescence, inducement, or assistance to the employer in using the invention without demanding compensation or other no-... [footnote omitted]
An employer will have shop rights in an tice of restriction. See Rosenberg, Patent Law Fundamentals § 11.04 (1991). invention in situations where the employer has financed an employee's invention by

facts of this case, the district court properly found that AP&L had acquired a "shop right" in Bowman's patented level detector which entitled AP&L to duplicate the level Applying Dubilier and the summary of he law set forth in WRT's own brief to the found that AP&L had acquired detector for use in its business.

Bowman developed " the patented level detector while working at AP&L" and sug-

opinion that, although it was unclear as to whether Bowman had pondered the idea of the level detector prior to his employment with AP&L, there was no evidence "that Bowman had ever taken the idea beyond the concept stage before 1982 by producing working drawings, building a prototype of the level detector testing it, or using it in a similar application at another facility." We agree with the district court's suggestion that whether Bowman conceived the invention prior to his employment with AP&L does not affect the ultimate conclusion in this particular case. See Logus, 195 USPQ 566, 200 USPQ 570 (shop right created where employee conceived invention prior to employment but then perfected and reduced to practice invention at employer's facilities, on employer's time, and with the use of employer's employees and materials). "The district court noted at pages 4-5 of its

an independent contractor and not an employee in the conventional sense. WRT asserts that the law is clear that Bowman must have been hired as an employee for a finding of "shop rights." contract with AP&L indicates that Bowman was "WRT argues that Bowman's

adequately depicts the types of factors that courts often look to in analyzing "shop rights" issues. See generally cases cited supra in notes 9-12.

"The summary of the law set forth by WRT

Bowman's consent and participation. Bowpers at ISES were installed by a contractor other than WRT, with Bowman's and hoppers at White Bluff and ISES were paid gested it to AP&L as an alternative to the Kprecipitator hoppers at White Bluff with man also consented to, and participated at (128) precipitator hoppers at ISES. In addition, the level detectors on half of the hopray system. AP&L installed the level detecleast in part in, the installation of the level detector on one hundred and twenty eight WRT's knowledge and consent. All costs and expenses associated with the testing and imtor on one hundred and twenty eight (128) plementation of the level detector on by AP&L.

its use. Indeed, the record suggests that Bowman believed quite the opposite. As recognized by the district court at page 12 of its AP&L was precluded from using the level AP&L was required to compensate him for Furthermore, Bowman never asserted that detector without his permission opinion.

note omitted] that he believed all along possibility and he subsequently shared the attorney's opinion with his partners in WRT. See Bowman deposition at 81-82. WRT argues that Bowman's consent or that AP&L would have shop rights. His Bowman admitted in a deposition sfootpatent attorney had informed him of that

justify the district court's finding that a acquiescence after he had assigned his rights in the Bowman application to WRT is irrelevant. Even if this were true, Bowman's actions at White Bluff prior to this assignment installation of the level detector by outside right" was created. Nevertheless, WRT, of which Bowman was a part owner during the relevant time period, acquiesced both to AP&L's continued use of the level detector at White Bluff and ISES and to the contractors at ISES. This lends further support to the district court's decision. dous.

acquired a "shop right" to use the patented level detector, AP&L somehow exceeded the WRT also argues that, even if AP&L had

"worthless" and robbed Bowman of the "fruit of his labor." We find these arguments and specifications of the patented device to scope of that right when it allegedly "careessly and casually disseminated the design putting information of this nature on the private contractors." WRT argues that, by open market, AP&L rendered the unpersuasive for two reasons.

owner of the Bowman patent still retained First, WRT has failed to explain how AP&L's mere dissemination of specifications of the patented level detector constitutthe right to exclude all others than AP&L The owner of a patent right may exclude others from making, using or selling the subject matter of a claimed invention. 35 U.S.C. §§ 154 and 271. AP&L's disseminainto any of these categories. Even so, it is also the level detector after it was patented rendered the Bowman patent "worthless." The ed patent infringement. Clearly, it did not tion of information obviously does not fall nuclear how disseminating specifications of from practicing the claimed invention.

conclusion clearly finds support in the law. H.F. Walliser & Co. v. F. W. Maurer & Sons Co. 17 F.2d 122, 124 (E.D. Pa. 1927); see also Dubilier, 289 U.S. at 188-89; Thompson, 174 F.2d at 778, 81 USPQ at 327-28; Pure Oil Co. v. Hyman, 95 F.2d 22, 25, 36 USPQ 306, 310 (7th Cir. 1938) ("shop right to continue to use it in its business. Such a court's holding that AP&L's "shap right" entitled it to duplicate the level detector and Second, we find no error in the district is co-extensive with the business requirements of the employer"). Furthermore, AP&L's "shop right" was not limited to itself had manufactured and installed. Quite right" entitled it to procure the level detector to the contrary, we find that AP&L's "shop aff'd on other grounds, 229 F. 156 (3d Cir. from outside contractors. Schmidt v. Central AP&L's use of level detectors that AP&L Foundry Co., 218 F. 466, 470 (D.N.J. 1914)

Finally, WRT makes several arguments never asserted that it has any ownership addressing the laws pertaining to the assignment of patent rights. However, AP&L has rights in the Bowman patent. Rather, AP&L has merely claimed "shop rights" as a de-Accordingly, WRT's assignment arguments fense to WRT's patent infringement action. are considered irrelevant unpersuasive.

AFFIRMED

not necessarily limited to an employer-employee relationship): Neon Signal Devices, Inc. v. Alpha-Clause Neon Corp., 54 F.2d 793, 794 (W.D. Pa. 1931) (shop right rule broad enough to include WRT has failed, however, to provide any support for this assertion, and we find the law as support ing a contrary conclusion. See Francklyn, 695 F.2d at 1160-62, 217 USPQ at 319 (shop right is permissive use by one other than an employer). 24 USPQ2d

cluded, using this date, that a mere three month delay in bringing suit was not unreasonable, and that prejudice also was absent because appellants had entered into the great majority of their commitments in connection with the movie by March 3. According to Milied and New Line, however. King knew everything he needed to know to assert his parights by October 1991, when a copy of the screenplay (with credits) was obtained. Appallants argue, therefore, that October 1991 is the proper time from which to consider the laches question, and note that many committents were made, and much money expend-

ed, after that time.

where the group did not actually see tape of the edited program until late November. objected to network promptly thereafter, and commenced suit after discussions failed); see not seem to us to be a useful date at which to draw a baseline. See Gilliam, 538 F.2d at 18, film credits. Accordingly, October 1991 does 25 (Monty Python group feared in early September that programs could be edited by television network, and first of programs so October 21 in which he acknowledged having the screenplay, Kramer specifically complained that he had not yet seen the tentative edited aired in early October; but no laches The issue of laches is committed to the discretion of the district court, see Dickey v. Alcoa Steamship Co., 641 F.2d 81, 82 (2d Cir. 1981) (citations omitted), and we see no abuse of that discretion here. King could not be certain about what the film would contain - the film credits lying at the heart of this dispute — until he actually viewed a copy of the film. Indeed, in the very same letter of also Horgan, 789 F.2d at 164.

[4] Even if the October 1991 date were to suit. As mentioned previously, King objected to the possessory credit to Allied as soon as he learned of the film in October 1991. He movie. He continued to voice his objections attempted to become fully informed and rethe March 3 letter to Holston, King did not encourage or acquiesce in the use of a possessory credit. Compare Southside Fair Housing, 928 F 2d at 1355 (14 month delay in bringing suit; laches established where plaintiffs either supported actions later sued upon or "essentially stood mute" in "protracted King unreasonably delayed in initiating this suit, in light of his conduct and the history of the parties prior to commencement of the attempted at that time to obtain the screenplay, tentative credits, and a copy of the to what seemed planned by appellants and solve the matter. Even taking into account be used, we would not be willing to say that

to New Line of the possessory credit. Risher told the agents that "this was a problem (King) should have dealt with the producers [Allied] on and that the producers represented to us we had this right." party to contact. New Line itself appears to Ruch, another New Line executive, recorded the contents of the February 18 telephone King did not make his objections known to New Line itself until much later, in Februthe actual producer of the movie and the licensor of New Line - was the appropriate an internal New Line memorandum. The memo, written by Sara Risher to Sandra call during which King's agents complained ary 1992. However, it seems that Allied have been of this same view, as evidenced by have objected to Allied in a timely fashion New Line argues that while King

The district court also found that appellants together delayed King's viewing of the film. This finding was supported by the evidence. A January 17, 1992 letter from Peter McRae of Allied to Sandra Ruch, for example, indicated that any "approach" to King to be "carefully considered" in light of "the potential benefits we may gain." Ruch handwrote on this letter that "[w]e don't want S King to see it [the movte] before opening date." This kind of "unclean hands" behavior confirms our belief that there was no abuse of discretion in the district court's rejection of the equitable defense of laches.

IV. New York Law and Jurisdictional Claims We have considered the various New York law claims made by King and accepted by the district court, and have concluded that the results we reach in this case under the applicable New York law. We have also considered appellants' remaining arguments — including the contention that this case should be assigned to another judge and Allied's claim that the district court was without jurisdiction to enjoin foreign distribution of the movie — and found them to be without merit.

### CONCLUSION

The order of the district court granting a preliminary injunction is affirmed to the extent it prohibits use of the possessory credit, but reversed to the extent it prohibits use of a "based upon" credit.

Court of Appeals, Federal Circuit

In re Oetiker

No. 91-1026

Decided October 13, 1992

#### PATENTS

I. Practice and procedure in Patent and Trademark Office — Prosecution — In general (§110.0901)

Patentability/Validity — Obviousness In general (§115.0901) "Prima facie" case is procedural tool of patent examination which allocates burdens of going foward as between examiner and applicant; examiner bears initial burden, on review of prior art or on any other ground, of presenting prima facie case of unpatentability, and if that burden is met, burden of coming forward with evidence or argument shifts to applicant, and after applicant submits such evidence in response, patentability is determined on totality of record, by prespondenance of evidence with due consideration to persuasiveness of argument.

2. Practice and procedure in Patent and Trademark Office — Board of Patent Appeals and Interferences — In general (§110,1101)

Board of Patent Appeals and Interferences, in reviewing examiner's decision on appeal, must necessarily weigh all evidence and argument, and board's observation that examiner made prima facie case of unpatentability is not improper, as long as ultimate determination of patentability is made on entire record.

3. Practice and procedure in Patent and Trademark Office — Prosecution — In general (§110.0901)

Patentability/Validity — Obviousness — In general (§115.0901) Concept of "prima facie" case of obviousness, which places initial burden on examiner, is of broad applicability and is not limited to chemical practice; that prima facie case may be established, or rebutted, by different forms of evidence in various technologies does not restrict concept to any particular field of technology.

4. Patentability/Validity — Obviousness — Relevant prior art — In general (§115.0903.01)

Patentability/Validity — Obviousness — Combining references (§115.0905)

Prior art reierence, in order to be relied upon as basis for rejecting applicant's invention, must either be in field of applicant's endeavor or, if not, be reasonably pertinent to particular problem with which inventor was concerned; combination of elements from non-analogous sources, in manner that reconstructs applicant's invention only with benefit of hindsight, is insufficient to present prima facie case of obviousness.

 Patentability/Validity — Obviousness — In general (§115.0901) Simplicity of invention is not itself inimical to patentability.

Appeal from the U.S. Patent and Trade-mark Office, Board of Patent Appeals and Interferences.

Application for patent, no. 06/942.694, filed by Hans Oetiker. From decision holding claims unpatentable, applicant appeals. Reversed; Nies, C.J., and Plager, J., concurring in separate opinions.

Paul M. Craig, Jr., Washington, D.C., for appellant.

John W. Dewhirst (Fred E. McKelvey, solicitor and Robert D. Edmonds, associate solicitor, with him on brief), for appellee.

Before Nies, chief judge, and Newman and Plager, circuit judges.

Newman, J.

Hans Oetiker appeals the decision of the United States Patent and Trademark Office Board of Patent Appeals and Interferences, holding unpatentable claims 1-14 and 6-21, all of the claims in patent application No. 06/942,694. Oetiker appeals on procedural and substantive grounds.

I PROCEDURE Background All of the claims were finally rejected for obviousness in terms of 35 U.S.C. §103. The

<sup>1</sup> Ex parte Oetiker, No. 89-2330 (Bd. Pat App. & Interf. May 31, 1990; on reconsideration, August 23, 1990).

Oetiker stated that this Board holding was the first rejection of his claims deration. The Board declined to consider the Board, upholding the rejection, stated that "the examiner has ... established a prima facte case of opviousness ... which is unrebutted by any objective evidence of nonbeing "prima facie obvious", and filed rebuttal evidence with a petition for reconsinew evidence or change its decision. obviousness".

that a rejection made in the words "prima iners and practitioners as an invitation to tion, that the claimed invention is subject to ered, and the question of patentability will be redecided on the entire record. Oetiker states Oetiker states that a holding of prima facie obviousness means, in patent examinarebuttable presumption of obviousness; that is, if the applicant can provide evidence facie obvious" is understood by patent examor argument in support of unobviousness, such evidence and argument will be considprovide such rebuttal evidence.

the examiner did not reject the claims in these words. Treating it as such, Oetiker Thus Octiker argues that a holding by the ground of rejection, for during prosecution offered affidavit evidence not previously filed, and requested reconsideration on the basis of this new evidence, or remand to the examiner for this purpose, in accordance Board of prima facie obviousness is a new

with 37 C.F.R. §1.196(b): §1.196(b) ... When the Board ... makes new rejection of an appealed claim, the appellant may exercise either of the fol-

event the application will be remanded to lowing two options ....
(1) The appellant may submit ... a reconsidered by the examiner in which showing of facts ... and have the matter the examiner. . .

Board . . . upon the same record. The Board on reconsideration granted neither of the options of §1.196(b), stating that (2) The appellant may have the case reconsidered under \$1.197(b) by the

missioner's counsel suggested that Oetiker could renie his patent application, pay a new fee, and obtain review of this new evidence in new examination. Oetiker states that he At argument before this court the Comwas entitled to a complete examination, and it had not made a new rejection. did not get it.

tool of patent examination, allocating the burdens of going forward as between exam-[1] The prima facie case is a procedural

and applicant. In re Spada, 911 F.2d 707 n.3, 15 USPQ2d 1655, 1657 n.3 I. Cir. 1990). The term "prima facie" refers only to the initial examination step. In re Piasecki, 745 F.2d 1468, 1472, 223 USPQ 785, 788 (Fed. Cir. 1984); In re Rinehart, 531 F.2d 1048, 1052, 189 USPQ 143, 147 (CCPA 1976). As discussed in In re ground, of presenting a prima facie case of unpatentability. If that burden is met, the Piasecki, the examiner bears the initial burden, on review of the prior art or on any other burden of coming forward with evidence or argument shifts to the applicant. case

cration to persuasiveness of argument. See In re Spada, supra; In re Corkill, 771 F.2d 1496, 1500, 226 USPQ 1005, 1008 (Fed. Cir. 1985); In re Caveny, 761 F.2d 671, 674, 226 USPQ 1, 3 (Fed. Cir. 1985); In re Johnson, 747 F.2d 1456, 1460, 223 USPQ by the applicant in response, patentability is determined on the totality of the record, by a After evidence or argument is submitted preponderance of evidence with due consid-1260, 1263 (Fed. Cir. 1984).

entitled to grant of the patent. See In re Grabiak, 769 F.2d 729, 733, 226 USPQ 870, 873 (Fed. Cir. 1985); In re Rinehart, supra. ability, then without more the applicant is If examination at the initial stage does not produce a prima facie case of unpatent-

745 F.2d at 1472, 223 USPQ at 788; In re Rinehart, 531 F.2d at 1052, 189 USPQ at [2] In reviewing the examiner's decision on of the evidence and argument. An observation by the Board that the examiner made a prima facie case is not improper, as long as the ultimate determination of patentability is made on the entire record. In re Piasecki, appeal, the Board must necessarily weigh ail

aminer and the arguments advanced by the appellant and the examiner. The Board why he was not persuaded by the applicant's argument. On review the Board stated that its decision was reached "after cureful consideration of the appealed claims, the eviexplained why it was unpersuaded by Oetiker's arguments on appeal. We discern no irregularity in the procedure. The Board, in explaining that the examiner's rejections The record here reveals that the application was fully prosecuted. References were cited and applied by the examiner, the applicant responded with argument, and the examiner then issued a final rejection, stating dence of obviousness relied upon by the exconstituted a prima facie case of obviousness, did not make a new rejection.

[3] Octiker also argues that the concept of a "prima facie case of obviousness" has no role outside of the chemical arts. Octiker

would not look to the garment art for the solution. Oetiker also argues that even if cludes that these references were improperly combined the references do not render the nonanalogous art. Oetiker concombined; that a person of ordinary skill, seeking to solve the problem lacing Octiver claimed combination obvious. facie case as of broad applicability, for it places the initial burden on the examiner, the refers to the origins of this term in the chemical practice, where properties may not chanical device are apparent in the drawing of the structure. We think that the PTO is correct in treating the concept of the prima be apparent from chemical structure. Octiker distinguishes mechanical inventions, where the properties and workings of a me-

In re Oetiker

24 USPQ2d

field of endeavor" is nonetheless "analogous The examiner stated that "since garments commonly use hooks for securement", a person faced with the problem of unreliable maintenance of the pre-assembly configura-"Appellant's device as disclosed could be ment, or discuss its relevance. Indeed, the art" because it relates to a hooking problem, tion of an assembly line metal hose clamp utilized as part of a garment". The Board did not repeat or support the examiner's arguargument is not supportable. However, the though not "within the appellant's specific examiner explained further by stating that would look to the garment industry art. Board held that the Lauro reference, as does Oetiker's invention.

nologies does not restrict the concept to any particular field of technology. "[T]he requirement of unobviousness in the case of

different forms of evidence in various tech-

may be established, or rebutted,

appropriate procedure whatever the technological class of invention. That a prima facie

chemical inventions is the same as for other types of inventions." In re Johnson, 747 F.2d at 1460, 223 USPQ at 1263. This procedural tool is recognized in fields outside of the

chemical arts. E.g., In re Benno, 768 F.2d 1340, 226 USPQ 683 (Fed. Cir. 1985); In re McCarthy, 763 F.2d 411, 226 USPQ 99 (Fed. Cir. 1985); In re De Blauwe, 736 F.2d 699, 222 USPQ 191 (Fed. Cir. 1984).

The Board's usage of the term prima facie was imprecise for, as discussed supra, the term "prima facie obvious" retates to the burden on the examiner at the initial stage of the examination, while the conclusion of obviousness vel non is based on the preponder-However, it was clear that the Board did not make a new rejection. Therefore the Board did not err in declining to consider at that

ance of evidence and argument in the record.

stage the proffered evidence of commercial

success.

his brief on appeal that "A disengageable catch, such as that used by Oetiker, is a common everyday mechanical concept that that is the argument now pressed by the Commissioner. The Commissioner states in hook and eye apparatus disclosed by Lauro".

No such references were cited, however.
While this court may take judicial notice of The Board apparently reasoned that all hooking problems are analogous. At least, electrical and other switches, as well as in the er did not explain why a "catch" of unstated no teaching or suggestion that Lauro's mold-ed hook and eye fastener, even it combined is variously employed in door latches and common everyday mechanical concepts in appropriate circumstances, the Commissionstructure in an electrical switch, for example, is such a concept and would have made Octiker's invention obvious. Indeed, the Commissioner did not respond to Octiker's argument that the cited references provide with Oetiker's '004 clamp, would achieve Oetiker's purpose.

[4] In order to rely on a reference as a basis for rejection of the applicant's invention, the reference must either be in the held of the applicant's endeavor or, if not, then be reawith which the inventor was concerned. See In re Deminski, 796 F.2d 436, 442, 230 USPQ 313, 315 (Fed. Cir. 1986). Patent sonably pertinent to the particular problem examination is necessarily conducted by hindsight, with complete knowledge of the applicant's invention, and the courts have recognized the subjective aspects of determining whether an inventor would reason-

### THE MERITS

Oetiker's invention is an improvement in a "stepless, earless" metal clamp, a hose clamp presence of a feature that is described as a preassembly "hook". This "hook" serves both to maintain the preassembly condition of the clamp and to be disengaged automati-'004 patent of Oetiker, but that differs in the that was generally described in an earlier cally when the clamp is tightened.

plastic hook and eye fastener for use in The cited references were Octiker's earlier-granted '004 patent, combined with a certain Lauro '400 patent. Lauro describes a garments, in which "unitary tabs of sewing needle puncturable plastic material . . . are Oetiker argues that there is no suggestion or motivation to the artisan to combine the teachings of the cited references, and that affixable to clothing and the like by sewing

We have reminded ourselves and the PTO that it is necessary to consider "the reality of the circumstances". In re Wood, 599 F.2d 1032, 1036, 202 USPQ 171, 174 (CCPA deciding in which fields a person of ordinary ably be motivated to go to the field in which the examiner found the reference, in order to — in other words, common sense — in skill would reasonably be expected to look for a solution to the problem facing the solve the problem confronting the inventor.

knowledge can not come from the applicant's invention itself. Diversitech Corp. v. Century Steps. Inc., 850 F.2d 675, 678-79, 7 USPQ2d 1315, 1318 (Fed. Cir. 1988); In reGeiger, 815 F.2d 686, 687, 2 USPQ2d 1276, 1278 (Fed. Cir. 1987); Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1147, 227 There must be some reason, suggestion, or motivation found in the prior art whereby a person of ordinary skill in the field of the It has not been shown that a person of ordinary skill, seeking to solve a problem of fastening a hose clamp, would reasonably be expected or motivated to look to fasteners for garments. The combination of elements from non-analogous sources, in a manner that reconstructs the applicant's invention only with the benefit of hindsight, is insufficient to present a prima facie case of obviousness. invention would make the combination. That USPQ 543, 551 (Fed. Cir. 1985).

ity is not inimical to patentability. See Good-year Tire & Rubber Co. v. Ray-O-Vac Co., 321 U.S. 275, 279, 60 USPQ 386, 388 (1944) (simplicity of itself does not negative invention); Panduit Corp. v. Dennison M/8 Co.. 810 F.2d 1561, 1572, 1 USPQ2d 1593, 1600 (Fed. Cir.) (the patent system is not foreclosed to those who make simple inventions), cert. denied, 481 U.S. 1052 (1987). [5] Oetiker's invention is simple. Simplic-

Accordingly, the Board erred in holding the claims unpatentable under section 103. The rejection of claims 1-4 and 16-21 is We conclude that the references on which the Board relied were improperly combined.

## Nies, C.J., concurring.

reason, suggestion, or motivation found "in the prior art "or "in the prior art references" 103 (1988). Similar language appears in a agree with the panel decision and write only to express my understanding of the language that there must be some teaching, to make a combination to render an invention obvious within the meaning of 35 U.S.C.

number of opinions and if taken literally. cific in a prior art reference would lead an inventor to combine the teachings therein would mean that an invention cannot be held to have been obvious unless something spewith another piece of prior art.

the test is: "whether the teachings of the prior art, taken as a whole, would have made obvious the claimed invention," In re Gorman, 933 F.2d at 986, 18 USPQ2d at 1888, and "what the combined teachings ... would have suggested to one of ordinary skill in the art." In re Young, 927 F.2d 588, 591, 18 USPQ2d 1089, 1091 (Fed. Cir. 1991). We have also stated that "the prior art as a whole Wiley Corp., 837 F.2d 1044, 1051, 5 USPQ2d 1434, 1438 (Fed. Cir.), cerr. de-nied, 488 U.S. 825 (1988); Lindemann Maschinenfabrik GMBH v. American Hoist & Derrick Co., 730 F.2d 1452, 1462, 221 USPQ 481, 488 (Fed. Cir. 1984). statements in opinions express the idea more generally. We have stated, for example, that must suggest the desirability ... of making This restrictive understanding of the concept of obviousness is clearly wrong. Other the combination." Uniroyal, Inc. v. Rudkin-

the obviousness issue through the eyes of one would be presumed to know with that back-ground. What would be obvious to one of I believe that it would better reflect the "from the prior art" rather than simply "in the prior art." The word "from" expresses the idea of the statute that we must look at of ordinary skill in the art and what one skill in the art is a different question from artisan is likely to extract more than a layconcept of obviousness to speak in terms of what would be obvious to a layman. man from reading a reference.

subject matter is unpatentable if it "would have been obvious ... to a person having in any event, variance in the language used in opinions does not change the nature of the statutory inquiry. Under section 103

See, e.g., Symbol Technologies, Inc. v. Opti-con, Inc., 935 F.2d 1569, 19 USPQ2d 1241, 1246 (Fed. Cir. 1991). In re Gorman, 933 F.2d 982, 989, 18 USPQ2d 1885, (Fed. Cir. 1991); In re Mills, 916 F.2d 680, 682, 16 USPQ2d 1430, (Fed. Cir. 1990); Smithkline Diagnostics, Inc. v. Helena Laboratories Corp., 859 F.2d 878, 887, USPQ2d 1468, 1475 (Fed. Cir. 1988); In re Dow Chemical Co., 837 F.2d 469, 473, 5 USPQ2d 1529, 1531 (Fed. Cir. 1988); In re Stenect, 828 F.2d 751, 755, 4 USPQ2d 1071, 1073 (Fed. Cir. 1987); Ashland Oil, Inc. v. Delta Resins & Refractories, Inc., 776 F.2d. 281, 293, 227 USPQ 657, 664 (Fed. Cir. 1985), cert. denied, 475 U.S. 1017 (1986); In re Grabiak, 769 F.2d 729, 732, 226 USPO 870, 872 (Fed. Cir. 1985)

problem which it addresses. In re Wood, 599 F.2d 1032, 1037, 202 USPQ 171, 174 (CCPA 1979). See, also, EWP Corp. v. Reliance Universal, Inc., 155 F.2d 898, 906-07, 225 USPQ 20, 25 (Fed. Cir.), cert. denied, 474 U.S. 843 (1985); In re Sernaker, 702 F.2d 989, 995, 217 USPQ 1, 6 (Fed. Cir. line of reasoning as to why the artisan would have found the claimed invention to have ordinary skill in the art." While there must iii) suggest making the combination. In re Nilssen, 851 F.2d 1401, 1403, 7 USPQ2d 1500, 1502 (Fed. Cir. 1988). Such suggesings can derive solely from the existence of a teaching, which one of ordinary skill in the 972, 973 (Bd. Pat. App. & Inter. 1985) ("To bination is directed to obvious subject matter, either the references must expressly or implicitly suggest the claimed combination or the examiner must present a convincing that the cited references or prior art specifisupport the conclusion that the claimed combe some teaching, reason, suggestion, or molivation to combine existing elements to produce the claimed device, it is not necessary tion or motivation to combine prior art teachart would be presumed to know, and the use 1983). See also, Ex parte Clapp, 227 USPQ of that teaching to solve the same of similar

In sum, it is off the mark for litigants to be held to have been obvious unless a sugges-tion to combine prior art teachings is found argue, as many do, that an invention cannot n a specific reference.

been obvious in light of the teachings of the

### Plager, J., concurring.

written opinion of Judge Newman. With regard to Part I dealing with the PTO procedure, her explanation of the meaning and should help clarify an area that remains falls of the prima facie' practice of the PTO. l join in the carefully-reasoned and wellapplication of the prima facie case' concept marked by a lack of clarity. The need for that discussion, however, illustrates the pitand the difficulties created by this particular egalistically convoluted concept.

law to a patent. In re Warner, 379 F.2d 1011, 1016, 154 USPQ 173, 177 (CCPA 1967), cert. denied, 389 U.S. 1057 (1968). In reject-An applicant for a patent is entitled to the patent unless the application fails to meet the equirements established by law. It is the Commissioner's duty (acting through the exquirements of the Patent Act are met. The that the applicant is not entitled under the amining officials) to determine that all reburden is on the Commissioner to establish ng an application, factual determinations by

the PTO must be based on a preponderance of the evidence, and legal conclusions must be correct. In re Caveney, 761 F.2d 671, 674 226 USPQ 1, 3 (Fed. Cir. 1985).

and argument. To that extent the concept serves to level the playing field and reduces the likelihood of administrative arbitrari-The process of patent examination is an interactive one. See generally, Chisum. Parents, § 11.03 et seq. (1992). The examiner cannot sit mum, leaving the applicant to shoot arrows into the dark hoping to someexact origin of which appears obscure (see In re Piasecki, 745 F.2d 1468, 1472, 233 USPQ intended to leave no doubt among examiners any objections (the prima facie case) to pattunity to meet those objections with evidence how hit a secret objection harbored by the examiner. The prima facie case aotion, the 785, 788 (Fed. Cir. 1984)), seemingly was that they must state clearly and specifically entability, and give the applicant fair oppor-

whether a prima facie case for rejection was whole record, the applicant has met the stat-When a final rejection is described in terms cess, and by this court on appeal, is not made; the only question is whether, on the utory requirements for obtaining a patent. intermediate issue diverts attention from But the ultimate decision that must be made by the PTO in the examination proof whether a prima facie case was made, that what should be the question to be decided.

the examiner has the burden of persuasion constitutes the so-called prima facie showing. Once that burden is met, the applicant has the burden of production to demonstrate that the examiner's preliminary determination is not correct. The examiner, and if later involved, the Board, retain the uitimate bur-Specifically, when obviousness is at issue. and therefore the initial burden of production. Satisfying the burden of production, and thus initially the burden of persuasion. den of persuasion on the issue.

If, as a matter of law, the issue is in equipoise, the applicant is entitled to the patent. Thus on appeal to this court as in the PTO, the applicant does not bear the uitithe end there is no reason there or here to argue over whether a 'prima facie' case was mate burden of persuasion on the issue. In made out. The only determinative issue is whether the record as a whole supports the egal conclusion that the invention would have been obvious.

227 USPO

Allen Organ Co. v. ELKAS p. A.

where the enclosure comprises an inverted substantially U-shaped top frame portion and the artisan to modify the open frame in Zim-

227 USPQ

In re Broco, 225 USPQ 227 (TTAB 1984), are distinguished. In TMS (THE MONEY SERVICE for financial services) the applicant did not sell "money." In House Stare the field of furniture), the applicant did not sell "houses." In Braco (THE LIBRARY COM-PANY for library supply services) the applicant did not sell "libraries." Appellant here does sell wickerware, hence the rationale supporting registrability in the cited cases is (HOUSE STORE for retail store services in napplicable.

The refusal of registration is affirmed.

#### Patent and Trademark Office Board of Patent Appeals and Interferences

said auger

### Ex parte Clapp

## Opinion dated Feb. 28, 1985

### 1. Anticipation - Combining references (\$51,205)

references must either expressly or impliedly artisan would have found claimed invention to suggest claimed combination or examiner must present convincing line of reasoning as to why To support conclusion that claimed combination is directed to obvious subject matter. have been obvious in light of references

rejection of Claim 9-19, applicant appeals Serial No. 257,162, filed Apr. 24, 1981. From Application for patent of Thomas R. Clapp, (Appeal No. 553-54). Reversed.

## Gomer W. Walters, for appellant.

Before Bennett, Henon and Spencer, Examiners-in-Chief.

## Henon, Examiner-in-Chief.

This appeal is from the decision of the examiner rejecting claims 9 through 19, which constitute all the claims remaining in the

application.

ing apparatus for mixing cementitious materiais employing a volatile liquid. Representative The invention relates to an auger type mixclaim 9 reads as follows:

9. Apparatus mounted on a vehicle for mixing a cementitious material in which a volatile liquid is employed comprising:

prevent the escape of the volatile liquid and an enclosed mixing chamber sealed to any potentially dangerous fumes;

solid frame forming the top of said mixing chamer and having an inlet end thereof pivotably mounted on the vehicle; an easily removable clastomeric trough forming the bottom of said mixing chamber,

iquid into a mixing chamber remote from the inlet hopper, the examiner concludes that it man accordingly. Since Lasar discloses the

would therefore be obvious to modify Zimmerconcept of having an auger with mixing pad-

kinson also discloses the concept of providing liquid injection means for the introduction of

> the elastomeric material selected to be coman auger having a central shaft and patible with the materials being mixed;

mounted in said frame to convey materials through said mixing chamber;

releasably coupled to a frame, the examiner the artisan to modify the auger in Zimmerman as taught by Lasar. Futty is cited to show that between an auger shaft and the shaft of a

mixing paddles mounted on the shaft of

a drive motor for said auger mounted on a releasable flexible coupling between the permit removal of said auger from said aligned shafts of said motor and said auger

Clemens is cited as disclosing

driving motor.

it is well known to provide coaxial alignment

the concept of haiving a discharge opening in a

trough. The examiner concludes that it would have been obvious in light of Futty and Clemens to modify the auger/motor alignment and nature suggested by Futty and Clemens. Cun-

discharge opening of Zimmerman to be of the ningham is cited as disclosing seal means to

an inlet hopper to introduce substantially

dry materials into said mixing chamber;

substantially dry material form a plug to uid into said mixing chamber at a distance removed from said inlet hopper to have said prevent the liquid and any fumes from backiquid injection means to introduce a liqng up said inlet hopper; and

a discharge opening formed in said elastomeric trough.

Claim 15 stands rejected as being directed to obvious subject matter under 35 U.S.C. 103 in

light of the combined teachings of Zimmerman, Wilkinson. Futty, Lasar, Clemens, Cun-

Combining the teach-

ings of Zimmerman, Wilkinson, Futty, Lasar, Clemens and Cunningham in the manner specified supra, the examiner concludes that it would have been further obvious to the artisan in light of the teachings of August to provide spray elements with selectively activated controls since. August teaches such devices to be Claims 16, 18 and 19 stand rejected as being directed to obvious subject matter under 35 U.S.C. 103 in light of the combined teachings

ningham and August.

teachings of Cunningham to employ seal means on the modified device of Zimmerman.

The references relied on by the examiner

Clemens	2,159,205	May 23, 1939	
August	2,709,075	May 24, 1955	
Fiemersma .	3,199,145	Aug. 10, 1965	
Cunningham	3,227,424	Jan. 4, 1966	
Zimmerman	3,310,293	Mar. 21, 1967	
Futty et al. (Futty)	3,339,898	Sep. 5, 1967	
Wilkinson et al.			
(Wilkinson)	3,348,820	Oct. 24, 1967	
Lasar	3,901,483	Aug. 26, 1975	

as being directed to obvious subject matter within the meaning of 35 U.S.C. 103 in light of the teachings of Zimmerman in view of and auger and a discharge formed in the elastomeric trough," (final rejection, page 2, ningham. The examiner contends that Zimclosed with a solid top frame and having a removable auger and having liquid injection elastomeric trough," (final rejection, page 2, paper number 5). The examiner cites Wilkin-Claims 9 through 14 and 17 stand rejected Wilkinson, Futty, Lasar, Clemens and Cunmerman discloses the claimed subject matter except for "having the mixing chamber enmeans and aligned shafts between the motor son as disclosing an enclosed mixing chamber

however, is clearly directed to a combination of elements. That is to say, appellant does not claim that he has invented one or more new ings of the references would have found it obvious to selectively pick and choose various references relied on to arrive at the claimed invention. In the instant application, the excombination of elements. To support the conclusion that the claimed combination is directpresent a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of the references. We find nothing in Based upon the record before us, we are conor concepts from the various references so as to [1] Presuming arguendo that the references show the elements or concepts urged by the examiner, the examiner has presented no line of reasoning, and we know of none, as to why the artisan viewing only the collective teachaminer has done little more than cite references to show that one or more elements or when each is viewed in a vacuum, is known. The claimed invention. elements but has presented claims to a new ed to obvious subject matter, either the references must expressly or impliedly suggest the ciaimed combination or the examiner must the references that would expressly or impliedly teach or suggest the modifications urged by Additionally, as aforementioned, we find no line of reasoning in the answer, and we know of none, as to why the artisan would have found the modifications urged by the examiner to have been obvious. vinced that the artisan would not have found it obvious to selectively pick and choose elements arrive at the claimed invention without using the claims as a guide. It is to be noted that simplicity and hindsight are not proper criteria re Horn, 203 USPO 969, 971 (CCPA 1979). Accordingly, we will not sustain any of the We will not sustain any of the rejections. for resolving the issue of obviousness. Note elements and/or concepts from the subcombinations thereof, the examiner merman to be an enclosed mixing chamber as taught by Wilkinson "if desired." Since Wilconcludes that it therefore would be obvious to dles mounted thereon wherein the auger is concludes that it would have been obvious to preclude leakage of the material within the mixing chamber. The examiner concludes that it would have been obvious in light of the

claims 9 through 19 as being directed to obvious subject matter within the meaning of 35 the examiner U.S.C. 103 is reversed. rejections presented. The decision of

of Zimmerman, Wilkinson, Futty, Lasar, Clemens, Cunningham and Tiemersma. Com-

bining the teachings of Zimmerman, Wilkinson, Futty, Lasar, Clemens and Cunningham in the manner specified supra, the examiner

concludes that it would have been obvious to further modify the structure of Zimmerman to include a gas-filled bearing housing for sealing

# District Court, E. D. Pennsylvania

Allen Organ Company v. ELKA S.p.A.

pellant and the examiner, reference is made to the brief and answer for the respective details

thereof.

Rather than relierate the arguments of ap-

No. 85-90

## Court of Appeals, Federal Circuit

In re Fritch

Decided August 11, 1992 No. 91-1318

AND PRACTICE JUDICIAL PROCEDURE

### 1. Procedure - Judicial review - Standard of review - Patents (§410.4607.09)

Obviousness determination is based on underlying factual inquiries concerning claimed invention and prior art, which are reviewed for clear error on appeal, but ultimate conclusion of obviousness is reviewed as matter of law.

#### PATENTS

### 2. Patent construction - Claims - Broad or narrow (§125.1303)

Prior art patent for grass edging and watering device cannot be held to teach that device is flexible and conformable to ground includes prominent anchoring leg which would inhibit longitudinal flexibility, and since patent's express teaching that trench is necessary to install device in harder ground in its entirety, since base portion of device shows that it is not freely conformable thereto.

### 3. Patentability/Validity — Obviousness — Relevant prior art — Particular inventions (§115.0903.03)

### Patentability/Validity - Obviousness Combining references (§115.0905)

device, and since secondary reference does not, merely by virtue of flexibility of device Claims for landscape edging device are teachings of two prior patents, since primary reference does not suggest overall flexibility described therein, suggest extensive modifications which would bring primary reference not prima facie obvious in view of combined and landscape retention function of claimed into conformity with application claims.

### Patentability/Validity -- Obviousness --Combining references (§115.0905)

teachings of prior art so that claimed inven-tion is rendered obvious. Mere fact that prior art may be modified to reflect features of claimed invention does not make modification, and hence claimed invention, obvious unless desirability of such tion manual or "template" to piece together modification is suggested by prior art: claimed invention cannot be used as instruc-

Appeal from the U.S. Patent and Trade-Office, Board of Patent Appeals and Interferences.

method). From decision upholding rejection of application claims 1-7, 9-24, 29 and 30, ial no. 06/838,721, landscape apparatus and Patent application of John R. Fritch (serapplicant appeals. Reversed.

John R. Fritch, Corpus Christi, Texas, on Charles L. Gholz, of Oblon, Spivak, McClelland, Maier & Neustadt, Arlington, Va brief), for appellant. Jameson Lee, associate solicitor (Fred E. McKelvey, solicitor, with him on brief; Richard E. Schafer, of counsel), for appellee: Before Smith, senior circuit, judge, and Plager and Rader, circuit judges.

#### Smith. J.

ordinary skill in the art and was therefore unpatentable under 35 U.S.C. § 103. The Board, except for allowing claim 28, agreed. od. The Examiner concluded that Fritch's invention would have been obvious to one of rademark Office Board of Patent Appeals and Interferences (Board) affirming-in-part John R. Fritch (Fritch) appeals the 27 February 1991 decision of the Patent and the Examiner's final rejection of the remaining claims in Fritch's application entitled Edging Apparatus and Meth-The Board's decision is reversed. Landscape

#### Issue

affirming the Examiner's determination that the prior art references of Wilson and Hendrix rendered the subject matter of Fritch's independent claims 1, 13, 24, and 29 obvious The issue is whether the Board erred in to one of ordinary skill in the art.

### Background

In his final rejection, the Examiner reject-ed claims 1-24 and 27-30 of Fritch's application as unpatentable for obviousness under 35 U.S.C. § 103. Fritch appealed the final entered a new ground of rejection for claim 27, and reversed as to claim 28. The Board agreed with the Examiner that the teachings of the Wilson and Hendrix patents rendered rejection to the Board. The Board affirmed the rejection as to claims 1-24, 29 and 30

'Serial No. 06/838,721.

in the art. Fritch does not appeal the Board's the subject matter of independent claims 1 13, 24, and 29 obvious to one of ordinary skill disposition as to claims 27 and 28, and at oral argument withdrew the appeal as to claim 8. The claims remaining in this appeal are 1-7.

### The Fritch Invention

The invention claimed by Fritch involves a Fritch invention is intended to be used as a landscape edging device which includes a ng retainer portion. The base portion is of the base portion serves as a mowing strip landscape fill. The upwardly extending reto the base portion and defines a ongitudinally extending enclosed space. The a landscaping sheet to the ground, or to planar base portion and an upwardly extendelongate, thin, flexible and has a planar bottom surface conformable to a varying slope ground surface. One longitudinal edge rate unmowable landscape fill from the mowable lawn. It may also be used to secure independent claims 1 and 13 on appeal are and the other serves as a retaining flange for tainer portion is integrally connected (e.g., retainer for landscape fill in order to sepaunction as guards at the base of a fence. representative of the subject matter claimed:

 A landscape edging strip formed in its entirety of a thin gauge, flexible material and conformable to a ground surface of varying slope, comprising a continuous clongate, thin gauge, flexible base portion able to said varying slope ground surface; ing upwardly therefrom and transversely thereover to overlie a portion of said base portion; all of said retainer portion definly connected to said base portion adjacent define a mowing strip adjacent the other longitudinal edge of said base having a planar bottom surface conform a thin gauge, elongate retainer portion integral with said base portion and extending a longitudinally extending enclosed space; said retainer portion being integralone longitudinal edge of said base portion

13. A landscape edging strip formed in its varying slope, comprising a continuous elongate, thin gauge, flexible base portion having a planar bottom surface conformable to said varying slope ground surface; a thin gauge, elongate retainer portion entirety from thin gauge, flexible material and conformable to a ground surface of

tudinal edges of said base portion, thereby defining a longitudinally extending retaintending upwardly therefrom and transversely thereiver to overlie a portion of tion defining a longitudinally extending ing flange on one side of said retainer integral with said base port ion and exsaid base portion; all of said retainer porenclosed space; said retainer portion being integrally connected to said base portion at a transverse location between the longiportion and a mowing strip on the other side of said retainer portion.

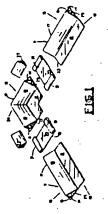
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In re Fritch

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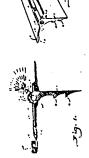
ambles, "are necessary to give meaning to the claim[s] and properly define the inven-tion... Figure 1 from Fritch's drawings is ent claims is that the device is to be, in its entirety, both flexible and "conformable to a ground surface of varying slope". These limitations, although located in the claims' pre-The critical language in Fritch's independreproduced below:



#### a. The Wilson Parent The Prior Ari

Edging and Watering Device". The embodiment of the Wilson device includes a horizontally from a longitudinally extending The Wilson patent relied upon by the Examiner and the Board is entitled "Grass substantially flat mowing strip extending body portion. Opposite the mowing strip is a scored flange which may be broken off when not needed or wanted. Between the mowing strip and the flange, and extending vertically Located above the unchoring leg is the body portion which contains a water conduit and sprinkler head assembly. The device is intended to be used adjacent to the borders of walks and plant beds. Figures 1 and 4 from rom the body portion is an anchoring leg. Wilson's drawings are reproduced below:

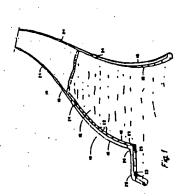
<sup>&</sup>lt;sup>2</sup> Perkin Elmer Corp. v. Computervision Corp., 732 F.2d 888, 896, 221 USPQ 669, 675 (Fed. Cir. 1984). U.S. Patent No. 3, 285, 449.



## b. The Hendrix Patent

because it did play a role in the rejection of Hendrix patent is entitled "Loose Material Retainer Strip" The Solicitor chose not to discuss the Hendrix reference in his brief, stating that the Board had deemed Solicitor overstates the Board's position. The "a collective evaluation of the Wilson and Hendrix patents". We include Hendrix in our discussion Hendrix unnecessary to its decision. The Board based its decision upon

device is to be wider than the top lip in order to facilitate fastening the device to the ground. The device will fit most gentle contours, and the top lip will yield laterally to build-up of gravel until the gravel can be plates that the retainer will be used in retaining gravel in driveways, lining flower beds, or ways. Figure 1 of Hendrix's drawings is redistributed. The concave portion of the strip is installed such that it faces the material to be retained in place. Hendrix contemon the shoulders of asphalt or concrete highgated, flexible strips having substantially C-shaped cross-section. The bottom lip of the The Hendrix device is composed of elon-Fritch's independent claims. reproduced below.



· U.S. Patent No. 4,349,596.

### Standard of Review

are reviewed for clear error. However, it is the ultimate conclusion of obviousness which the Federal Circuit reviews as a matter of [1] "[O]bviousness is a question of law to be determined from the facts." The obviousness determination "is based upon underfactual inquiries concerning the which claimed invention and the prior art" lying

### Teachings of Wilson

the Wilson patent. The Examiner's rejection use of Wilson in view of other references to er's finding of fact regarding the teachings of Wilson. In the Examiner's answer, which the Board quotes, the Wilson device is described Fritch takes exception to the Examiner's and the Board's opinion rely heavily on the declare the Fritch invention obvious. The Board states that it agrees with the Examinfindings of fact related to the teachings of follows:

elongated flexible base portion including a surface conformable to a varying slope Wilson discloses a landscaping edging strip comprising a relatively thin gauge, mower strip B having a planar bottom

the Wilson device as teaching that it is flexi-ble and conformable in its entirety. This The Board states that the Wilson reference presents "substantial evidence that Wilson is both thin and flexible." The Board regards

dirt thereunder for the purpose of securing the device to the ground. Fritch, on the other in the mower strip. Wilson states that its mower strip may be lifted in order to pack tion of Wilson is not planar in its entirety, as the Board's opinion suggests, but also in-cludes a prominent anchoring leg to secure would inhibit longitudinal flexibility of the Wilson device. Indeed, Wilson expressly contemplates flexibility and conformability only finding demonstrates clear error.
[2] It is well settled that a prior art reference is relevant for all that it teaches to those the device to the ground. The anchoring leg, which runs the length of the Wilson device. hand, is claimed to be flexible in its entirety of ordinary skill in the art.' The base por'In re De Blauwe, 736 F.2d 699, 703, 222 USPQ 191, 195 (Fed. Cir. 1984). \*In re Kulling, 897 F.2d 1147, 1149, 14 USPQ 40 1056, 1057 (Fed. Cir. 1990). 'In re De Blauwe, 736 F.2d at 703, 222 USPQ at 195.

\*\* Beckman Instruments Inc. v. LKB Produkter AB, 892 F.2d 1547, 1551, 13 USPQ2d 1301, 1304 (Fed. Cir. 1989).

23 USPQ2d

in its entirety is based upon a misapprenen-The Board's holding that Wilson is flexible

sion of the scope of Wilson's teachings.
Secord. Wilson's anchoring leg prohibits conformability to the ground surface in the manner claimed by Fritch. The Examiner's description of Wilson as having a "planar Wilson sprinkler system. In order to install the Wilson apparatus, the ground surface must be altered to conform to the device rather than, as the Solicitor contends, that slope surface" is applicable only in reference to the mower strip. This description, however, ignores the anchor leg and the fact that expressly teaches that the anchoring leg may bottom surface conformable to a varying it must be placed into the ground. Wilson be pushed into soft soils, but in harder terrain a trench is needed in order to place the Wilson is freely conformable to the ground. Fritch, on the other hand, does not require such extensive alteration of the ground surace in order to install the device.

## Prima Facie Obviousness

Trademark Office, the Examiner bears the burden of establishing a prima facie case of only by showing some objective teaching in the prior art or that knowledge generally available to one of ordinary skill in the art proceedings before the Patent and "[The Examiner] can satisfy this burden relevant teachings of the references." " The patent applicant may then attack the Examobjective evidence tending to support a conobviousness based upon the prior art." iner's prima facie determination as improperly made out, or the applicant may present would lead that individual to combine clusion of nonobviousness.

claimed invention was prima facie obvious in view of the teachings of the prior art. The have rendered the subject matter of inde-Fritch has attacked the Board's unding that the Examiner established that Fritch's the Wilson and the Hendrix patents would pendent claims 1, 13, 24, and 29 obvious to one of ordinary skill." Fritch maintains that Board states that "a collective evaluation of there is no teaching, suggestion, or incentive in the prior art to modify or to combine the

suggested by the Examiner. We agree.

teachings of the prior art

) =

In re Fritch

23 USPO2d

leg, for securing the device to the ground. Wilson contemplates that a trench will need that is mentioned as being flexible in order to [3] Wilson teaches a grass edging and wato be dug in order to allow the anchoring leg of the soil requires it. This unchoring leg formability in Wilson, which the Board to the mower strip. It is only the mower strip its teaching of a flexible retainer strip that is tering device which includes an anchoring to be placed into the ground if the condition prohibits dexibility and conformability over the length of Wilson. Any flexibility or constates extends to the entire device, is limited aid installation. Hendrix has been cited for able to conform to the ground surface.

this would arguably result in clogged sprin-kler heads.<sup>13</sup> Wilson also teaches that its Wilson addresses the problems of arresting growth of grass between areas and waterlacks any suggestion or incentive to use its mower strip is flexible in order to allow dirt to be packed thereunder. There is no suggesanchoring leg. Hendrix does not, simply by virtue of its flexible nature, suggest these obvious. Neither Wilson nor Hendrix, alone combine the teachings of the prior art in the ing plants without wetting sidewalks. Wilson water conduit as a landscape retainer since tion in Wilson to extend that flexibility to the entire device. Wilson also lacks any teaching extensive changes which the Board states are or in combination, provide any incentive to or suggestion that one should remove the manner maintained by the Board.

combining the teachings of the prior art to [4] "Obviousness cannot be established by produce the claimed invention, absent some teaching or suggestion supporting the combiferences can be combined only if there is couched in terms of combining teachings found in the prior art, the same teachings of reinquiry must be carried out in the context of a purported obvious "modification" of the may be modified in the manner suggested by prior art. The mere fact that the prior art the Examiner does not make the modification obvious unless the prior art suggested some suggestion or incentive to do so. nation. Under section 103 Although

USPQ 785, 787-88 (Fed. Cir. 1984).

"In re Fine, 837 F.2d 1071, 1074, 5 USPQ2d 1596, 1598 (Fed. Cir. 1988) (cting In re Lalu, 747 F.2d 703, 705, 223 USPQ 1257, 1258 (Fed. Cir. 1988)). \* In re Piasecki. 745 F.2d 1468, 1471-72, 223

<sup>&</sup>quot; In re Heldt, 433 F.2d 808, 811, 167 USPQ 676, 678 (CCPA 1970).

<sup>&</sup>quot;This court has previously found a proposed modification inappropriate for an obviousness in-quiry when the modification rendered the prior art reference inoperable for us intended purpose. In re Gordon, 733 F.2d 900, 902, 221 USPQ 1125, I127 (Fed. Cir. 1984).

<sup>&</sup>quot;ACS Hosp. Systems, Inc. v. Montefiore Hosp., 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984).

23 USPQ2d

for, or desirability of, the changes espoused the desirability of the modification." Wilson Hendrix fail to suggest any motivation by the Examiner and endorsed by the Board. and

to arrive at the determination of obviousness. It is impermissible to use the claimed invenobvious.13 This court has previously stated Here, the Examiner relied upon hindsight to piece together the teachings of the prior art so that the claimed invention is rendered that "[o]ne cannot use hindsight reconstrucclosures in the prior art to deprecate the tion to pick and choose among isolated distion as an instruction manual or "template" claimed invention." "

#### Conclusion

The decision of the Board affirming the Examiner's rejection of independent claims 1, 13, 24, and 29 of Fritch's application as unpatentable over the prior ari under 35 U.S.C. § 103 is reversed. Since dependent claims are nonobvious if the independent of dependent claims 2-7, 9-12, 14-23, and 30 claims from which they depend are nonobvious, the Board's affirmance of the rejection is also reversed."

REVERSED

Trademark Trial and Appeal Board U.S. Patent and Trademark Office

CBS Inc. v. Mercandante

Nos. 85,324 and 85,330

Decided June 15, 1992

"In re Gorman, 933 F.2d 982, 987, 18 USPQ2d 1885, 1888 (Fed. Cir. 1991). See also Interconnect Planning Corp. v. Feil, 774 F.2d 1132, 1138, 227 USPQ 543, 547 (Fed. Cir. " In re Gordon, 733 F.2d at 902, 221 USPQ

1600 (citing Harners Int'l, Inc. v. Simplimatic Eng g. Co., 819 F.2d 1100, 1108, 2 USPQ2d 1826, 1831 (Fed. Cir. 1987)). See also In re Sernaker, 702 F.2d 989, 991, 217 USPQ 1, 3 (Fed. Cir. 1983) (when argued together, dependent claims stand or fall with the independent claims from which they depend). In re Fine, 837 F.2d at 1076, 5 USPQ2d at 1600

In re Fine, 837 F.2d at 1075, 5 USPQ2d at

pleadings granted in part.

applicants.

Marshall J. Nelson, Washington, D.C., for

Mercandante filed applications to register

BAR and design 2 for candy bars. Released June 25, 1992

1. Acquisition, assignment, and maintenance TRADEMARKS AND UNFAIR TRADE PRACTICES

of marks - Acquisition through use -

Priority of use (§305.0503)

procedure in Patent and Trademark Office — Interpartes proceedings — Opposition and cancellation - In general (§325.0305.01) Practice and

Likelihood of confusion — In general infringement; conflicts between marks (§335.0301)

based upon its services or its collateral mer-chandise, or both, and whether it claims Opposer which uses mark "Rescue: 911" its television show, which asserts that it dise items, and which seeks to oppose registration of "911 Rescue Bars," for candy whether its claim of likelihood of confusion is has licensed use of mark on various merchanbars, must clearly indicate in its pleading priority of use of its mark on its collateral merchandise. į

85,324 and 85,330 by CBS Inc. against James V. Mercandante and Rose Marie Mercandante. d/b/a 911 Rescue Bar. applications serial no. 74/076,762, filed July 9, 1990, and 74/081,873, filed July 25, 1990, in poser's pleaded registration. On opposer's er's affirmative defenses, and for judgment motion to amend its answer to counterclaim, and on applicant's motions to strike opposon the pleadings. Motion for judgment on Consolidated trademark oppositions no. which applicants counterclaim to cancel op-

David S. Fishman, Windsor, Conn., for

opposer.

Before Sams, Rice, and Quinn, members.

### By the board.

James V. Mercandante and Rose Marie

merchandise item on which Opposer is bars would lead the public into the mistaken belief that these candy bars are another mark "911 RESCUE BAR" using its mark. 911 RESCUE BAR | and 911 RESCUE and likelihood of contusion. Opposer claims CBS Inc. opposed the registration of applicants' marks on the ground of priority of use

CBS Inc. v. Mercandante

would damage Opposer's valuable rights in its "RESCUE: 911" mark. ly a connection with Opposer. Opposer of such registration, because it inevitably its mark, because it is so similar to Opposer's "RESCUE: 911" mark that, when applied to the goods of Applicant, it would be likely to cause confusion, to cause mistake or to deceive and would suggest falsefurther would be injured by the granting 12. Opposer would be injured by granting Applicant a certificate of registration for

"RESCUE: 911," Opposer has entered

has licensed the use of its mark "RES-CUE: 911" for various merchandise items.

Opposer's television program series into several licensing arrangements and

7. As a resuit of the tremendous popularity

the following allegations:

mark for a television program series since prior to May 31, 1990. Opposer has made

use of the mark RESCUE: 911 as a service

opposer) will be injured; and denied the ". [i]t is Opposer's use (rather than Applicant's use) of the mark" which will confuse superior rights in their marks, applicant (not paragraph No. 11, asserting that in view of and deceive the public; denied paragraph applicants superior rights in their marks, No. 12, asserting that in view of applicants' In their answer, applicants admitted paragraph Nos. 9 and 10 of the opposition; denied remaining allegations.

the mark "911 RESCUE BAR" prior to

for which Applicant seeks to register its in connection with which Opposer has

9. Upon information and belief, the goods mark — candy bars — are related to those

May 31, 1990.

has made no use in the United States of

8. Upon information and belief. Applicant

watches and toys.

such as mugs, caps, T-shirts, sweatshirts,

confusion. Applicants allege use of the marks 911 RESCUE BAR since at least as early as FEAM on t-shirts since at least as early as Applicants filed a counterclaim to cancel grounds of priority of use and likelihood of October 22, 1985 and 911 RESCUE registration opposer's pleaded December 4, 1985.

right to use "BAR," it is evident that "911 RESCUE" is the dominant portion of the

Applicant's mark

mark, as to be likely when applied to the or to cause mistake or to deceive. As Applicant has disclaimed the exclusive

goods of the Applicant, to cause confusion,

10. The dominant portion of Applicant's

used its "RESCUE: 911" mark.

mark contains a word and number identi-Opposer's mark, but in reverse order, and

cal to the word and number comprising so resembles Opposer's "RESCUE: 911" 11. As a result of Applicant's use of the mark "911 RESCUE BAR," the public is

mistaken belief that goods offered and advertised by Applicant have their origin with Opposer, and that such goods are approved, endorsed, or sponsored. by, or

likely to be confused and deceived into the

and that because there are no grounds to support the allegations in the counterclaim, applicants filed the counterclaim in violation Opposer denied the salient allegations in applicants' counterclaim to cancel opposer's pleaded registration and pleaded the affirmative defenses of laches, acquiescence and estoppe!. Opposer also pleaded that appli-RESCUE BAR and 911 RESCUE TEAM cants have abandoned use of their marks 911 of Fed. R. Civ. P. 11.

This confusion is likely since Opposer is already using its mark "RESCUE: 911"

associated in some way with. Opposer

on various merchandise items, as noted in Paragraph 7 above. Applicant's use of the

that paragraph No. 17 of applicants' coun-On April 1, 1992, applicants filed a motion under Fed. R. Civ. P. 12(e) requesting

'Application Serial No. 74/076.762. filed ily 9, 1990, claiming dates of use on May 31,

Application Serial No. 74/081.873, filed 141y 25, 1990, claiming dates of use on May 31.

entertainment services, namely, television series.

The registration issued from an application filed
August 21, 1989, claiming use since April 10, 1989. 'Opposer claims ownership of Registration No. 1,592,451 for the mark RESCUE: 911 for

goods on which applicants have used, since October 22, 1985, the mark 911 RESCUE BAR; presumably, applicants claim use of 911 RESCUE BAR on candy bars. \* Applicants' counterclaim does not state the